COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS & SURGEONS

The Faculty of Medicine

2001-2003

INQUIRIES

POST OFFICE ADDRESS

College of Physicians & Surgeons
Columbia University
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New York, NY 10032

TELEPHONE INQUIRIES

Office of Admissions: (212) 305-3595
Office of Financial Aid: (212) 305-4100

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ACADEMIC CALENDAR, 2002-2003

The following Academic Calendar was correct and complete as of the time of publication; however, the University reserves the right to revise or amend it, in whole or part, at any time. Information on the current status of the Academic Calendar may be obtained in the Office of Financial and Student Services, 141 Black, (212) 305-3477.

MAJOR RELIGIOUS HOLIDAYS

For a statement of University policy regarding religious holidays, see *University Regulations.*

Some of the major holidays are listed below. The Jewish and Islamic holy days begin at sundown of the preceding day. The exact dates for Islamic holy days may vary by one or two days from estimated dates given below.

2002

Saturday, Sunday, September 7, 8 . . . . . .Rosh Hashanah
Monday, September 16 . . . . . .Yom Kippur
Saturday, September 21 . . . . . .First Day of Succoth
Sunday, September 29 . . . . . .Last Day of Succoth
Wednesday, November 6 . . . . . .First Day of Ramadan
Thursday, December 5 . . . . . .Last Day of Ramadan
Friday, December 6 . . . . . .Eid-al-Fitr
Wednesday, December 25 . . . . . .Christmas

2003

Thursday, February 13 . . . . . Eid-al-Adha
Thursday, Friday, April 17, 18 . . . . . First days of Passover
Friday, April 18 . . . . . Good Friday
Sunday, April 20 . . . . . Easter
Wednesday, Thursday, April 23, 24 . . . . . Last days of Passover
Friday, Saturday, June 6, 7 . . . . . Shavuot

2002

JUNE

June

21 Friday. The Student Clinician's Ceremony for the Class of 2004 (2nd to 3rd year transition ceremony).
Deadline to have completed USMLE I, Class of 2004.

24 Monday. Class of 2004 reports to MCY hospital rotations.

30 Sunday. Awarding of June degrees.

JULY

1 Monday. Class of 2003 reports to fourth-year electives.

4 Thursday. Independence Day Holiday observed for third- and fourth-year students.

AUGUST

19-23 Monday-Friday. Orientation for first-year students, Class of 2006.

22 Thursday. Registration for first-year students.

23 Friday. White Coat Ceremony for first-year students, Class of 2006.

26 Monday. Academic year begins for first- and second-year students.

SEPTEMBER

2 Monday. Labor Day holiday for first-, second-, and third-year students.

OCTOBER

1 Tuesday. Deadline to have completed USMLE II, Class of 2003.

16 Wednesday. Awarding of October degrees.

NOVEMBER

28 Thursday. Thanksgiving holiday for third-year students.

28-29 Thursday, Friday. Thanksgiving holiday for first- and second-year students.

DECEMBER

14-Jan. 5 Saturday-Sunday. Vacation for third-year students.

15 Sunday. Deadline to have repeated USMLE Step I, Class of 2004.

20 Friday. Last first-semester exam for first-year students.

21-Jan. 5 Saturday-Sunday. Vacation for first- and second-year students.

2003

JANUARY

6 Monday. Resumption of classes for first- and second-year students. Resumption of clerkships for third-year students.

20 Monday. Martin Luther King's Birthday (observed). Holiday for first- and second-year students.

31 Friday. Deadline to have repeated USMLE Step II, Class of 2003.

FEBRUARY

12 Wednesday. Awarding of February degrees.

15-23 Saturday-Sunday. Spring vacation for second-year students.

17 Monday. Washington's Birthday (observed). Holiday for first- and second-year students.

MARCH

20 Thursday. NRMP - Match Day.

APRIL

12-21 Saturday-Monday. Spring vacation for first-year students.

MAY

5 Monday. Last day of classes for second-year students.

7 (Date subject to change.) Wednesday. Last exam for second-year students.

14 Wednesday. Dean's Day for Medical Student Research. Last day of classes for first-year students.

20 Tuesday. Class Day.

21 Wednesday. Columbia University Commencement and Convocation of the College of Physicians and Surgeons.

23 Friday. Last exam for first-year students. End of first year.

26 Monday. Memorial Day holiday for first-, second-, and third-year students.

JUNE

23 Monday. Classes resume for Class of 2005.

27 Friday. Major Clinical Year concludes for Class of 2004.
Deadline to have completed USMLE I, Class of 2005.
Student Clinician's Ceremony for the Class of 2005 (2nd- to 3rd-year transition ceremony).
Official end of second year.

30 Monday. Major Clinical Year begins for Class of 2005.
USMLE I required before starting the MCY.
Awarding of June degrees.

JULY

1 Tuesday. Class of 2004 reports to fourth-year electives.

4 Friday. Independence Day holiday observed for third- and fourth-year students.

Holidays not specified on this calendar are decided by Course Directors in each course in first and second years, and by Course Directors in each course in each teaching hospital in third and fourth years.

DATES OF UNITED STATES MEDICAL LICENSING EXAMINATIONS 2002-2003

2002

JUNE

23 Sunday. Deadline for USMLE I, Class of 2004. Passing required for graduation from P&S.

OCTOBER

1 Tuesday. Deadline for USMLE II, Class of 2003. Passing required for graduation from P&S.

DECEMBER

31 Tuesday. Deadline to have repeated USMLE Step I, Class of 2004.

2003

JANUARY

31 Friday. Deadline to have repeated USMLE Step II, Class of 2003.

HEALTH SCIENCES ADMINISTRATION

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THOMAS Q. MORRIS, M.D. Vice President for Health Sciences and Vice Dean of the Faculties of Health Sciences and Medicine
IRA LAMSTER, D.D.S. Dean of the School of Dental and Oral Surgery
MARY MUNDINGER, Dr. P.H. Dean of the School of Nursing
ALLAN ROSENFIELD, M.D. Dean of the Mailman School of Public Health
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KEVIN E. KIRBY, M.S. Vice President and Senior Associate Dean for Administration in the Faculties of Health Sciences and Medicine
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FRANK E. GUMP. Professor Emeritus of Surgery
RUTH J. GUTTMAN. Professor Emeritus of Radiology
JACK W. C. HAGSTROM. Professor Emeritus of Clinical Surgery
JAMES F. HAMMILL. Professor Emeritus of Clinical Neurology
EDGAR C. HANKS. Professor Emeritus of Clinical Anesthesiology
LEONARD C. HARBER. Rhodebeck Professor Emeritus of Dermatology and Public Health (Environmental Health Sciences)
REJANE M. HARVEY. Richards Professor Emeritus of Medicine
SAMI A. HASHIM. Professor Emeritus of Public Health (Public Health Nutrition)(Population & Family Health)(in the Institute of Human Nutrition)
MARGARET HEAGARTY. Professor Emeritus of Pediatrics
FREDERIC P. HERTER. Auchincloss Professor Emeritus of Surgery
BRIAN F. HOFFMAN. Hosack Professor Emeritus of Pharmacology
PETER R. HOLT. Professor Emeritus of Medicine
EDGAR M. HOUSEPIAN. Professor Emeritus of Clinical Neurological Surgery
NORMAN E. HUGO. Professor Emeritus of Surgery
ROBERT M. HUI. Professor Emeritus of Clinical Otolaryngology
HAROLD W. JACOX. Professor Emeritus of Radiology

OFFICERS EMERITI *Cont.*

GEORGIANA JAGIELLO. Damon Professor Emeritus of Obstetrics & Gynecology and Professor Emeritus of Genetics & Development
JO ANN S. JAMANN. Professor Emeritus of Nursing
IRA S. JONES. Clinical Professor Emeritus of Ophthalmology
NORMAN KAHN. Robinson Professor Emeritus of Dental & Oral Surgery and Professor Emeritus of Pharmacology
MICHAEL KATZ. Carpentier Professor Emeritus of Pediatrics and Public Health (Tropical Medicine)
SIDNEY KATZ. Professor Emeritus of Geriatric Medicine (in Medicine, Public Health, and in the Stroud Center)
LUCIE S. YOUNG KELLY. Professor Emeritus of Public Health (Health Administration) and Nursing
DONALD L. KING. Professor Emeritus of Clinical Radiology
THOMAS KING. Ferrer Professor of Emeritus of Surgery
DAVID W. KINNE. David V. Havif Professor Emeritus of Surgery
JOHN M. KINNEY. Professor Emeritus of Surgery
LAWRENCE C. KOLB. Professor Emeritus of Psychiatry
AUSTIN H. KUTSCHER. Professor Emeritus of Dental & Oral Surgery (in Psychiatry)
RAFFAELE LATTES. Professor Emeritus of Surgical Pathology
JOHN K. LATTIMER. Professor Emeritus of Urology
EDGAR LEIFER. Professor Emeritus of Clinical Medicine
SEYMOUR LIEBERMAN. Professor Emeritus of Biochemistry & Molecular Biophysics
JAMES W. LITTLER. Professor Emeritus of Clinical Surgery
BARBARA W. LOW. Professor Emeritus of Biochemistry & Molecular Biophysics
ROGER A. MACKINNON. Professor of Emeritus of Clinical Psychiatry
SIDNEY MALITZ. Professor Emeritus of Clinical Psychiatry
JAMES R. MALM. Professor Emeritus of Surgery
WLADYSLAW MANSKI. Professor Emeritus of Ophthalmology
LESTER C. MARK. Professor Emeritus of Anesthesiology
ERIC C. MARTIN. Professor Emeritus of Radiology
HERBERT J. MARX. Clinical Professor Emeritus of Medicine
RICHARD L. MASLAND. Merritt Professor Emeritus of Neurology
PAUL MEIER. Professor Emeritus of Public Health (Biostatistics) and Professor of Statistics
GEORGE R. MERRIAM, JR. Professor Emeritus of Clinical Ophthalmology
ARMAND F. MIRANDA. Professor Emeritus of Clinical Pathology
JANE H. MORSE. Professor Emeritus of Clinical Medicine
MELVIN L. MOSS. Professor Emeritus of Anatomy & Cell Biology and Dental & Oral Surgery
EQUINN MUNNELL. Professor Emeritus of Clinical Obstetrics & Gynecology
GABRIEL G. NAHAS. Professor Emeritus of Anesthesiology
CARLOS NAVARRO. Clinical Professor Emeritus of Pathology
CHARLES S. NEER, II. Professor Emeritus of Clinical Orthopedic Surgery
CHARLES R. NOBACK. Professor Emeritus of Anatomy & Cell Biology
MERO R. NOCENTI. Professor Emeritus of Physiology & Cellular Biophysics
ELADIO A. NUNEZ. Professor Emeritus of Anatomy & Cell Biology
JOSEPH L. O'BRIEN. Clinical Professor Emeritus of Neurology
JOHN E. OLSON. Professor Emeritus of Surgery
LUCIANO OZZELLO. Professor Emeritus of Surgical Pathology
BERNARD L. PACELLA. Clinical Professor Emeritus of Psychiatry
EUGENE J. PANTUCK. Professor Emeritus of Anesthesiology
EMIL F. PASCARELLI. Professor Emeritus of Clinical Medicine
HILDA PEDERSEN. Professor Emeritus of Clinical Anesthesiology
AUDREY S. PENN. Professor Emeritus of Neurology
BENVENUTO PERNIS. Professor Emeritus of Microbiology and Medicine
KARL H. PERZIN. Professor Emeritus of Clinical Surgical Pathology
CONRAD PIRANI. Professor Emeritus of Pathology
MAUREEN POH-FITZPATRICK. Professor Emeritus of Dermatology
GENE-ANN POLK. Professor Emeritus of Clinical Pediatrics
J. LAWRENCE POOL. Professor Emeritus of Neurological Surgery
GUY D. POTTER. Professor Emeritus of Clinical Radiology
JOHN B. PRICE. Professor Emeritus of Surgery
HERBERT RACKOW. Professor Emeritus of Anesthesiology
MAURICE M. RAPPORT. Professor Emeritus of Biochemistry & Molecular Biophysics
STEPHEN N. ROSENBERG. Clinical Professor of Public Health (Health Policy & Management)
CHARLES T. RYDER. Professor Emeritus of Clinical Orthopedic Surgery
ERNEST SALANITRE. Professor Emeritus of Clinical Anesthesiology
ANGUS C. SAMPATH. Clinical Professor Emeritus of Pathology (in Microbiology)
DORCAS SAMPLE. Clinical Professor Emeritus of Medicine
SAUL L. SANDERS. Clinical Professor Emeritus of Dermatology
LAWRENCE SAVETSKY. Clinical Professor Emeritus of Otolaryngology/Head & Neck Surgery
WILBUR H. SAWYER. Pfeiffer Professor Emeritus of Pharmacology
RALPH SCHLAEGER. Professor Emeritus of Clinical Radiology
JOHN N. SCHULLINGER. Professor Emeritus of Clinical Surgery
MILES J. SCHWARTZ. Professor Emeritus of Clinical Medicine
WILLIAM B. SEAMAN. Picker Professor Emeritus of Radiology
MARVIN L. SHELTON. Professor Emeritus of Clinical Orthopedic Surgery
ANNELIESE L. SITARZ. Professor Emeritus of Clinical Pediatrics
DAVID SPRINSON. Professor Emeritus of Biochemistry & Molecular Biophysics
BENNETT M. STEIN. Stookey Professor Emeritus of Neurological Surgery
ZENA A. STEIN. Professor Emeritus of Public Health (Epidemiology) (in the Sergievsky Center and Psychiatry)
RICHARD J. STOCK. Clinical Professor Emeritus of Medicine
GILBERT J. STONE. Professor Emeritus of Anesthesiology
MERVYN W. SUSSER. Sergievsky Professor Emeritus of Public Health (Epidemiology)
M. LEON TANCER. Professor Emeritus of Clinical Obstetrics & Gynecology
VIRGINIA M. TENNYSON. Professor Emeritus of Anatomy & Cell Biology and Pathology
LUBOS TRINER. Professor Emeritus of Anesthesiology
THEODORE B. VAN ITALLIE. Professor Emeritus of Medicine
RALPH VEENEMA. Professor Emeritus of Clinical Urology
HENRY VOGEL. Delafield Professor Emeritus of Pathology and Microbiology
HSUEH-HWA WANG. Professor Emeritus of Pharmacology
THEODORE SHENG-TAO WANG. Professor Emeritus of Clinical Radiology
HARVEY J. WEISS. Professor Emeritus of Medicine
ROBERT J. WEISS. Delamar Professor and Dean Emeritus of Public Health
ROBERT T. WHITLOCK. Professor Emeritus of Clinical Medicine
WALTER A. WICHERN, JR. Professor Emeritus of Clinical Surgery
MYRON WINICK. Williams Professor Emeritus of Nutrition (in Pediatrics)
SAMUEL M. WISHIK. Professor Emeritus of Public Health (Public Health Practice)
JAMES WOLFF. Professor Emeritus of Pediatrics
JOE D. WRAY. Professor Emeritus of Clinical Public Health (Center for Population & Family Health)

THE COLLEGE OF PHYSICIANS & SURGEONS AND AFFILIATED HOSPITALS

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of the new knowledge, and support the research from which the physician's knowledge develops.

HISTORY OF THE COLLEGE AND UNIVERSITY

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction resumed in the academic departments, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; for several years, the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the College was incorporated as an integral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent alliance between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; New York-Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about 20 acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive and is readily accessible from all parts of the city. A map of the Medical Center is printed on the last page of the Bulletin.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a 17-story building, each floor of which connects with the wards and services of New York-Presbyterian Hospital. The William Black Medical Research Building is a 20-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Julius and Armand Hammer Health Sciences Center, a 20-story structure diagonally opposite the William Black Medical Research Building, opened its teaching, research, and library facilities in 1976.

OFFICE OF SCHOLARLY RESOURCES

AUGUSTUS C. LONG HEALTH SCIENCES LIBRARY

The Augustus C. Long Health Sciences Library is located in the Hammer Health Sciences Center, 701 West 168th Street. The Library serves the schools of Medicine, Dentistry, Nursing, and Public Health; New York-Presbyterian Hospital, and other health care, instructional, and research programs in the Columbia-Presbyterian Medical Center.

The Health Sciences Library is one of the largest academic medical libraries in the country. Its collection includes approximately 500,000 volumes, over 4,400 currently received periodicals, and a large collection of audiovisual material. Also included in the Library's collection are the resources of Archives and Special Collections, consisting of rare and unique materials that document the history of medicine and medical education at the Columbia-Presbyterian Medical Center. Among these are the Florence Nightingale Collection, the Sigmund Freud Library, and the Jerome P. Webster Library of Plastic Surgery.

The Library supports a growing number of electronic resources available through the CPMC network and also via the Library's web site on CPMCnet. These include databases such as MEDLINE, electronic journals and full texts, and links to health sciences resources on the Internet.

The Library offers a wide array of services including instruction in using library and electronic resources, individual consultation on research topics, reserve readings, interlibrary borrowing, and a fax service. The library also houses a full-service Photocopy Center, offering self-service photocopy machines, article retrieval and photocopy service, high-volume photocopying, and color copying service.

The Health Sciences Library's home page at http://cpmcnet.columbia.edu/library/ has a complete description of hours, services, and resources. Users can also e-mail queries to hs-library@columbia.edu.

Students and faculty at the Health Sciences campus are entitled to privileges at any of the Columbia University libraries. The main collection is housed in other buildings on the Morningside campus. A complete guide to the University Libraries is available online at http://www.columbia.edu/cu/libraries/.

CENTER FOR ACADEMIC INFORMATION TECHNOLOGY

The Center for Academic Information Technology (CAIT) develops, delivers, and supports computer services and resources in support of teaching and learning for the Health Sciences Division. CAIT operates three computer labs, which are available to University and CPMC ID holders. Macintosh and Windows computers are available on a first-come first-serve basis. Software is provided for word processing, analyzing data, creating charts and graphics, as well as for accessing network resources to browse the web and access electronic mail. Printing is available at all locations. CAIT offers network connection assistance to students in the Health Sciences residence halls. For more information on connection assistance go to http://cpmcnet.columbia.edu/computers/cait/.

Located on the second floor of the Hammer Health Sciences Center, the center is fully equipped with 25 PCs in a classroom setting, 24 PCs in the microcomputer lab along with eight Macintosh computers, overhead projectors, LCD panels, laserdisc players, and audiovisual equipment. In addition, network connection ports are available in the E-Lounge, for patrons who wish to utilize their own laptop to browse the web. The media center is also housed in this location and includes more than 4,000 CD-ROMs, laserdiscs, and videotapes. The PH-17 computing facility is on the 17th floor of the Presbyterian Hospital building. It is equipped with PC and Macintosh systems along with LCD panels. The 24-hr computing facility is in the lobby of Hammer, near the entrance to the Health Sciences Library. It is also equipped with PC and Macintosh systems. On the main level and lower level of the library is a cluster of 23 library resources computers. More information is available online at http://cpmcnet.columbia.edu/computer.

CENTER FOR EDUCATION RESEARCH AND EVALUATION

The Center for Education Research and Evaluation assists course directors and faculty in the development and implementation of strong and innovative educational programs. Ongoing feedback from students about the courses, lectures, and educational materials that make up the curriculum is a valuable component in efforts to ensure that programs are of the highest quality. Throughout the year, students may be asked to complete evaluation surveys, participate in formal discussion sessions to assess various aspects of the curriculum, and/or review new materials to support the curriculum. Student comments and suggestions are solicited regularly and greatly appreciated.

In addition, the center operates a Test and Survey Scanning Service. Available for both faculty use and student projects, the facility is located in the Health Sciences Library. The service provides scanning of National Computer Systems (NCS) bubble-sheet forms for course examinations, course evaluation surveys, and research surveys. Basic statistical and summary reports on scanned data are supplied and the scanned data also are available in flat ASCII files. A handbook of policies and procedures is available at the facility. Visit the center's web site at http://cpmcnet.columbia.edu/dept/cere/.

AUDUBON BIOMEDICAL SCIENCE AND TECHNOLOGY PARK

Columbia University's Audubon Biomedical Science and Technology Park, the first biomedical research and biotechnology park in New York City, opened its doors in October 1995, with the dedication of the Mary Woodard Lasker Biomedical Research Building.

The Park, located east of Broadway in Columbia-Presbyterian Medical Center's first expansion to the east, is strategically important in enabling the University to advance its research program, strengthen links with industry, and revitalize the surrounding neighborhood.

The Park will eventually consist of five academic and commercial research facilities. As New York City's first university-related research park—housing the first biotechnology business incubator in the city—Audubon brings medical advances from the laboratory to the bedside through the development of pioneering biotechnology underlying new medical treatments, technologies, and therapies.

THE MARY WOODARD LASKER BIOMEDICAL RESEARCH BUILDING

Dedicated in October 1995, the Mary Woodard Lasker Biomedical Research Building houses the Audubon Business and Technology Center, which nurtures start-up biotechnology and biomedically related companies. It features a 10,000-square-foot business incubator with finished lab space divided into 500-square-foot modules for small companies. The six-story facility adjoins the restored facade of the Audubon Ballroom and Theater and the reconstructed portion of the ballroom where Malcolm X was killed in 1965. The ground floor houses retail space that includes restaurants, a bank, a coffee bar, and a bookstore that serves the community and the medical center.

THE RUSS BERRIE MEDICAL SCIENCE PAVILION

The second building, the Russ Berrie Medical Science Pavilion, was dedicated in May 1997. The Berrie Pavilion is the first dedicated research facility constructed on the Health Sciences campus since the mid-1970s. The seven-story building houses the Naomi Berrie Diabetes Center, the Columbia Genome Center, an expanded research program in pediatrics, including a new division of molecular genetics, and other programs including cancer research.

THE IRVING CANCER RESEARCH CENTER

Construction was launched for the Irving Cancer Research Center, the third Audubon building, in February 2001. The 13-story, approximately 300,000-gross-square-foot facility will cost $131 million and will double Columbia's laboratory space for cancer research and expand Columbia's growing genetics program.

This state-of-the-art building will bring basic scientists and clinicians working on cancer, genetics, and cell biology together in one site and will encourage collaborative efforts, building on Columbia's contributions in medical research and treatment.

The new building will sit east of Columbia-Presbyterian Medical Center on St. Nicholas Avenue between 166th and 167th streets. It will feature nine floors of research space, underground parking, and clinical facilities. Completion of the building is planned for spring of 2003.

NAOMI BERRIE DIABETES CENTER

The mission of the Naomi Berrie Diabetes Center is to combine unprecedented, family-oriented patient care and education with world-class diabetes research programs. The Center cares for children and adults with diabetes and has been named one of three "Diabetes Centers for Excellence" in New York State.

Founded in 1997 with a major gift from Russell and Angelica Berrie, the Center is named for Mr. Berrie's mother, who, like her son, had diabetes. With Drs. Robin Goland and Rudolph L. Leibel as co-directors, the Center opened its permanent space at the Russ Berrie Medical Science Pavilion at Columbia-Presbyterian in October 1998. With the help of its volunteer Diabetes Advisory Committee led by JoAnn M. and Joseph Murphy and comprised of a number of families who have contributed to its work, the Center has made a difference for many patients with diabetes.

CPMC CENTER FOR EMERGENCY MEDICINE

In 1991, the CPMC Center for Emergency Medicine was developed through a collaborative agreement between Columbia University and New York-Presbyterian Hospital, with Dr. Kenneth Fine as the Center's medical director and Linda Blatnik as its administrative director.

The Center was developed as a financial and administrative vehicle for a multi-specialty fee-for-service practice arrangement based at the university and functioning in the hospital's emergency rooms. Since 1997, the Center has been under the direction of Dr. James F. Giglio. The Center includes the adult and pediatric emergency areas at New York-Presbyterian Hospital and the Allen Pavilion Emergency Department. A residency director, Dr. Wallace Carter, has been hired, as it is anticipated that the hospital will have an emergency medicine residency program through Columbia and Cornell in the near future. The Center's website is under development by Dr. Karen Kerner, who may be contacted for further information via her email address, kfk9@columbia.edu.

CENTER FOR FAMILY MEDICINE

The Center for Family Medicine provides comprehensive, compassionate care to individuals in the context of their family and community. The Center's faculty teach the skills and impart the values of family medicine, expanding the knowledge foundational to family medicine through clinical, educational, and theoretical research. The Center contributes to the growth of the perspective unique to Family Medicine both within Columbia-Presbyterian Medical Center and throughout the national and international health care community through patient care, teaching, and research.

CENTER FOR MOLECULAR CARDIOLOGY

The Molecular Cardiology Program provides resources and core facilities to support investigation of the molecular basis of cardiovascular disease. The mission of the research programs are broadly conceived as the application of molecular and cellular approaches and appropriate animal models to enhance understandings of basic mechanisms regulating normal cardiovascular function and causing diseases. The general approach is to address fundamental mechanisms regulating biological processes using appropriate models which may or may not directly involve cardiovascular tissues and cells. Areas of particular interest include cell cycle regulation, myogenesis, cardiac development, ion channel regulation, and apoptosis.

The Molecular Cardiology Program occupies renovated state-of-the-art facilities at P&S. Tenure-track faculty positions are available for investigators to head independent research programs in the above mentioned areas. Faculty members in the Molecular Cardiology Program hold joint appointments in the Department of Medicine and in a basic science department. Outstanding postdoctoral fellows are attracted to the program, and all cardiology fellows at Columbia-Presbyterian Medical Center have one year of research support as part of their fellowship and many extend this to two or three years with support from extramural funding.

CENTER FOR MOLECULAR RECOGNITION

The Center for Molecular Recognition was founded in 1989 to provide a focus for research at the molecular level on the structure and function of membrane receptors and transport proteins. It consists of independent groups working on different proteins but sharing concepts, approaches, space, and equipment. Major efforts have been made on the nicotinic acetylcholine receptors, the GABA receptors, and the dopamine receptors. Other research targets have been dopamine transporter, cystic-fibrosis- transmembrane-conductance regulator, glutamine receptors, and a bacterial potassium channel. Among the recent achievements have been the determination of the structure of the ion-conducting channel of the acetylcholine receptor and of its gate in the resting, open, and desensitized states, the mapping of the entire binding-site-crevice of the dopamine D2 receptor, the identification of the specificity-determining residues of the D2 and D4 receptors, and the demonstration of the dimeric structure of the dopamine transporter. Unique approaches developed in the Center for these investigations are now used worldwide. The universality of receptors and transport proteins and the unity of biological mechanisms allows us to generalize the insights into a few proteins to many others of the same class. The faculty of the Center are Arthur Karlin, Ph.D., director, and Jonathan Javitch, M.D., Ph.D.

CENTER FOR NEUROBIOLOGY AND BEHAVIOR

The research mission of the Center for Neurobiology and Behavior is to arrive at cellular and molecular explanations of development, behavior, and learning that are both intellectually satisfying and relevant to problems of human behavior. Those working in the laboratories of the Center study development, motor control, learning, and motivation at various levels from single channel proteins to behavior. Experimental studies are carried out on a variety of subjects including Drosophila, Aplysia, chicks, guinea pigs, mice, quail, rats, cats, non-human primates and humans. The interactive, interdisciplinary atmosphere of the Center ensures that a wide choice of experimental techniques can be brought to bear on each research problem.

The Center sponsors a weekly seminar that alternates between either work-in-progress seminars by its faculty, postdoctoral fellows, and students, or seminars presented by invited speakers from throughout the country. A pair of annual memorial lectureships are given by distinguished young neurobiologists invited from throughout the international neurobiological community to honor two past Columbia faculty members: W. Alden Spencer and Stephen Schuetze.

CENTER FOR PSYCHOANALYTIC TRAINING AND RESEARCH

The Center for Psychoanalytic Training and Research is a psychoanalytic institute within the Department of Psychiatry and is located in the New York State Psychiatric Institute. Center faculty members, graduates, and candidates constitute a significant segment of the departmental clinical staff and participate in the teaching, therapeutic, and research programs of the many divisions of the department, including child psychiatry, clinical psychopharmacology, general psychiatry, community psychiatry, medical psychology, biometrics, and sociology, as well as having a major role in the medical school and residency training. The relationship between the Center and the department makes available to candidates and recent graduates opportunities for early teaching experience, an important stimulus for professional growth and development. Center affiliates are also members of the consultative and research staffs of non-psychiatric departments at the Columbia-Presbyterian Medical Center.

The Center and its faculty work with other schools, departments and projects of Columbia University in the preparation of courses for undergraduate and graduate students of the University in psychoanalysis, in collaborating on broad areas of common interest, and in providing theoretical and elective courses for psychiatric residents at the New York State Psychiatric Institute and affiliated hospitals of the Department of Psychiatry. Since 1974, the Center has maintained a close relationship with a second department of psychiatry, that of the Cornell University medical school. This relationship was arranged under the leadership of Dr. Robert Michels, who brought many outstanding psychoanalysts to his faculty who teach actively at the Center. Many of the Center's candidates and faculty have their primary academic affiliations at Cornell.

The Center for Psychoanalytic Training and Research has five major objectives that are all facets of an integrated whole: to educate students in the theory and practice of psychoanalysis, to encourage psychoanalytic research, to apply psychoanalytic theory to other disciplines, to foster the development of psychoanalytic scholarship, and to provide high-quality, low-cost psychoanalytic therapy to the community. Properly pursued, these objectives enrich and reinforce one another. Each student gains a basic knowledge of psychoanalytic theory and technique, a desire to seek answers to challenging questions, and

a receptivity to the perspectives of other disciplines. The program enables graduates to choose and pursue a variety of fields of predominant interest. Many graduates go on to positions in psychoanalytic research, teaching, academic psychiatry, and other related professional activities.

THE CENTER FOR RADIOLOGICAL RESEARCH

The Center for Radiological Research of Columbia University epitomizes the multidisciplinary approach toward an understanding, at both basic and applied levels, of the biological effects of ionizing radiation as they relate to human health. The strength of the group derives from its mix of professionals in fields as diverse as molecular biology, radiation physics, computational physics, cellular biology, and radiation oncology.

Some of the most exciting collaborative research amongst members of the Center has involved the single particle microbeam facility. Now fully automated, it is possible to expose individual cells to an exact number of α-particles (including one) at a rate of one cell per second. This increased speed makes it possible to perform experiments with mutation and oncogenic transformation as endpoint, as well as cell lethality and chromosomal aberrations.

The Radiological Research Laboratory was founded at Memorial Hospital in 1915, moved to its present location at the College of Physicians & Surgeons in 1944, and given center status in 1988. Dr. Eric J. Hall has been the director since 1984. For more information, go to http://cpmcnet.columbia.edu/dept/radoncology/crr.

CENTER FOR THE STUDY OF SOCIETY AND MEDICINE

The Center for the Study of Society and Medicine is an interdisciplinary institution, examining the complex interactions between medicine and society. To broaden the training for health care professionals, Center faculty use historical, sociological, literary, and philosophical methods to analyze clinical practices and biomedical research. Through an understanding of medicine in its full social and cultural context, the Center works to inform patient care and public policy. The principal faculty members teach the ethics and social medicine concepts in the pre-clinical curriculum. They also conduct seminars and independent research. The Center's programs focus on medicine's relation with the humanities, society, human rights, public policy, and ethics as well as on care at the end of life and clinical research ethics. Faculty's research topics include medical enhancement technologies, medical professionalism, breast cancer screening policies, ethical issues in human experimentation, organ transplantation, and the social and ethical impact of new genetic discoveries.

COLUMBIA GENOME CENTER

The Columbia Genome Center is an outgrowth of the National Institute of Health's Human Genome Initiative, which seeks to map and sequence all 23 pairs of human chromosomes. In 1990, as part of that project, researchers at P&S started work on chromosome 13 and have nearly completed a fine annotated map of this chromosome. The CGC is a consortium of most of those scientists and their laboratories, brought together in 1996, under the directorship of Dr. Isidore Edelman, for the purpose of gene identification. In late 1997 Dr. Conrad Gilliam was named co-director of the center. CGC is a university-wide interdepartmental undertaking that will examine DNA from a variety of sources, although the main thrust is human disease conditions.

INSTITUTE FOR CANCER GENETICS

The goal of the Institute for Cancer Genetics is to pursue and to provide advanced training in cutting-edge laboratory research aimed at elucidating the mechanisms that lead to the development of various common types of human cancer.

Faculty, staff, postdoctoral and graduate student researchers at the Institute exploit the strength of modern genetic technology to identify new cancer-associated genes, to elucidate the mechanisms for their alterations, and to translate these discoveries into new strategies for improved diagnosis and therapy.

INSTITUTE OF CANCER RESEARCH

The Institute of Cancer Research was established in 1911 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the campus of the Columbia-Presbyterian Medical Center in 1938.

The Institute of Cancer Research provides an intellectually exciting environment characterized by extensive interactions among research scientists representing different fields of interest. The common research theme is the exploration and elucidation of molecular mechanisms relating to the control of gene expression, cell cycle, and recombination in normal and neo-plastic cells.

Current research emphasis is on the analysis of factors that regulate transcription initiation and termination in yeast and in bacteria. The signals and the functions that induce the meiotic pathway in yeast are under study. Other programs are focused on the analysis of the steps in carcinogenesis, on oncogene-induced dedifferentiation, or on the regulation of cell cycle progression in normal and cancer cells. There is intense interest in the developmentally regulated appearance of membrane receptors. The institute also supports a program that studies recombination pathways in yeast and higher organisms.

As part of their curriculum, students from the departments of Biochemistry and Molecular Biophysics, Genetics and Development, and Microbiology, and the Integrated Ph.D. Program in Cellular, Molecular, and Biophysical Studies rotate through various laboratories within the institute to gain research experience. Selected students conduct doctoral research under the supervision of faculty members who are approved by the Executive Committee of the Graduate School to sponsor Ph.D. dissertations. The Institute of Cancer Research maintains an active intellectual environment, offering seminars, visiting speakers, and free exchange of information and other forms of cooperation and collaboration between the laboratories of the institute and those of the University's academic departments.

THE INSTITUTE OF COMPARATIVE MEDICINE

The Institute of Comparative Medicine is responsible for all management and administrative aspects of the laboratory animal resources at the Health Sciences Division. The administrative offices are located in the Black Building, Room 1810. In order to use animals in research, you must first get an approved animal protocol from the Institutional Animal Care and Use Committee (IACUC).

A website has been initiated to define the responsibilities of the animal facility and research staffs and to enhance communications between the Institute and researchers using animals. It is located at http://cpmcnet.columbia.edu/dept/icm/welcome.html. All policies defined within this website reflect standards defined by the Animal Welfare Act, the NIH Guide for the Care and Use of Laboratory Animals, and the Public Health Service Health Research Extension Act of 1985.

The Institute also provides an animal use training program with lectures and wet labs organized by individual species to ensure that all personnel involved in animal care and use at Columbia University are qualified to perform their duties.

INSTITUTE OF HUMAN NUTRITION

The Institute of Human Nutrition is an interdisciplinary unit whose mission is to study all aspects of nutrition that relate to human health. The Institute serves to conduct, coordinate, and lead nutrition research and education activities throughout Columbia University and its affiliated institutions. A long-standing mission of the Institute is to train individuals for scholarly activities and for posi-

tions in universities and research centers that are in the forefront of the movement to advance nutrition as a health science. In addition, the Institute seeks to augment the training of physicians and other health specialists who are interested in emphasizing nutrition in their professions.

To achieve this integration of purpose and at the same time allow for the specialization necessary for the best research and teaching, the Institute functions to coordinate academic nutrition activities being carried out within many units (Faculties, Departments, Centers) within the Columbia University system. Although each unit conducts its own program of research and training, combined research projects among the units are under way and joint seminars and courses involving faculty members and students in all units are conducted regularly.

The Master of Science Program is administered by the Postgraduate Division of the Faculty of Medicine. Ph.D. degrees in nutrition are awarded by the Graduate School of Arts and Sciences of Columbia University. Application to the Ph.D. program should be made to the program at 701 W. 168th Street, Room 406, New York, NY 10032. For further information, please contact the Institute of Human Nutrition, 630 W. 168th Street, Presbyterian Hospital 15 East-1512, New York, NY 10032.

IRVING CENTER FOR CLINICAL RESEARCH

The Irving Center for Clinical Research is a core facility that provides resources to clinical investigators to stimulate multidisciplinary, intensive investigation of human disease and clinical pharmacology. The most significant portion of the Irving Center is a General Clinical Research Center, funded by the NIH, which has served clinical investigators at the medical center since 1971.

The Irving Center is situated on the 10th floors of the old Presbyterian Hospital and Harkness Pavilion buildings. The far-sighted philanthropy of Herbert and Florence Irving contributed to CPMC a state-of-the-art environment for clinical research. The Center contains a core laboratory for non-routine assays on clinical specimens from patients; a data management unit with a biometrics computer group to help investigators not only in computer-based data storage, but also in the design and analysis of research studies; a specially designed clinical research unit for studies of drug abuse; an outpatient center with eight examination-interview rooms; a bionutrition unit for preparation of special research meals and other nutrition activities that support protocols; and a 16-bed inpatient unit with private rooms. Specialized research equipment in the inpatient unit includes beds wired for cardiac telemetry connected to a central monitoring station in the Milstein Hospital Building, a tilt table and exercise equipment for cardiovascular studies; and a sleep study room with a connecting observation room.

Pediatric facilities include both an inpatient unit on Babies Hospital 11 South and an outpatient facility located in Vanderbilt Clinic 3-301.

HERBERT IRVING COMPREHENSIVE CANCER CENTER

The mission of the Herbert Irving Comprehensive Cancer is the eradication of cancer via research, education, and patient care. The approximately 250 Cancer Center members receive in excess of $97 million in research funding per year, and provide education and training in cancer research for scientists, clinical investigators, and health professionals at all levels as well as for patients and the lay community. Three divisions (Laboratory, Clinical, and Public Health Cancer Research) support 11 research programs that facilitate the interdisciplinary collaboration. A specific emphasis of this Cancer Center, and a unifying theme that joins together its interdisciplinary research approach, is the use of concepts and methods in cellular molecular biology to enhance our understanding of the etiology and pathophysiology of human cancer, and to develop more effective strategies for cancer prevention, diagnosis, and treatment.

The Cancer Center supports 12 shared core facilities that provide state-of-the-art expertise, technology, and resources with considerable efficiency and cost savings, including a computer facility, flow cytometry, DNA sequencing, transgenic mice, confocal microscopy, media preparation, and a tumor tissue bank, as well as Biostatistical and Clinical Trials cores. While the Center itself does not award degrees, there are opportunities for graduate students to work in cancer research with faculty members in the various departments that are associated with the Cancer Center. Specific areas of research include molecular biology of cancer, oncogenes, growth factors and signal transduction, tumor virology, molecular mechanisms of chemical carcinogenesis, cancer epidemiology, experimental chemotherapy, tumor immunology, and biologic modifiers.

GERTRUDE H. SERGIEVSKY CENTER

The Sergievsky Center faculty focuses on epidemiology approaches to the study of neuro-developmental disorders throughout the life span. Areas of major concentration include epilepsy and seizure disorders, degenerative diseases of the nervous system, cerebral palsy and related developmental disorders of the nervous system in infants and children, and neurologic disorders of major public health impact. The allied disciplines in the health sciences represented in the center, in addition to epidemiology, include biostatistics, human genetics, neurology of adults and children, obstetrics, pediatrics, physiology, psychiatry of adults and children, psychology, and social sciences. Funded with an endowment, it also participates in the teaching programs of the epidemiology division of the School of Public Health and the Departments of Neurology, Psychiatry, and Pediatrics and provides a major resource in epidemiology research and training in the epidemiology of diseases of the nervous system.

MORRIS W. STROUD CENTER FOR STUDY OF QUALITY OF LIFE

In 1990, this Center was named in honor of Dr. Morris W. Stroud III; it includes the Center for Geriatrics and Gerontology, established in 1979. The programmatic theme is quality of life in health and aging. Research activities cover the lengthening of active life, effects of early dementia, suffering caused by depression, limitations due to cardiac failure, laboratory studies of functioning, genetics of independence in self-care, and development of theory. Continuing education emphasizes quality of life in health services; it is conducted through the Center's Psychogeriatric Fellowship and Center for Geriatric Education. Clinical models in demonstration sites feature use of quality of life information to help practitioners and patients reach shared goals.

MORTON A. KREITCHMAN PET CENTER

Positron emission tomography (PET) has become a valuable diagnostic tool in neurology, cardiology, and oncology. By expanding facilities to create novel radioligands that serve as markers for a wide variety of biochemical processes, the Kreitchman PET Center has expanded the diagnostic capabilities of PET to new disorders and identified new tools for basic clinical research. Dr. Ronald Van Heertum, the Center's director, has guided the expansion of research and clinical activities since the Center's founding in 1994. A second scanner was added in 1999 and a new radioligand labeling facility was installed in 2000. A profusion of new clinical diagnostic applications and the efforts of Strategic Outpatient Services, a private management and outreach operation, have driven a rapid expansion of the number of patients receiving PET scans, making the Kreitchman Center one of the most active scanning facilities in the greater New York area.

TAUB INSTITUTE FOR RESEARCH ON ALZHEIMER'S DISEASE AND THE AGING BRAIN

The mission of the Taub Institute is to foster multidisciplinary investigation into the mechanisms involved in the etiology and pathogenesis of degenerative

brain diseases of aging and the development of the means to prevent these disorders.

Established as the Taub Center for Alzheimer's Disease Research in 1995, the Center initially brought together researchers with a wide range of skills and interests in Alzheimer's disease from the Sergievsky Center and the Department of Pathology. During the last five years investigators in the departments of Neurology, Psychiatry, Physiology & Cellular Biophysics, the Center for Neurobiology and Behavior, and the department of Biological Science on the Morningside campus joined efforts. In 1999, the Taub Institute was developed to capitalize on this momentum by making it the focal point for campus-wide, multidisciplinary research on neurodegenerative disease by recruiting mid-level and senior scientists, developing new scientists and establishing research laboratories in cell biology, genetics and epidemiology, and cognitive neuroscience.

In addition, Taub Institute physicians provide diagnostic services and clinical care to patients and their families. Patient services include complete neuropsychological examinations, neuroimaging, genetic and laboratory testing, and clinical trials. The Center's three Memory Centers are located at the New York State Psychiatric Institute, the Neurological Institute, and Columbia Presbyterian Eastside. Drs. Richard Mayeux and Michael Shelanski are co-directors of the Institute. For more information, contact Carol R. Tycko, Administrative Director, 630 West 168th Street, P&S Box 16, New York, NY 10032; or call (212)-305-1818; or go to www.alzheimerscenter.org.

THE HOWARD HUGHES MEDICAL INSTITUTE AT COLUMBIA UNIVERSITY

The Howard Hughes Medical Institute (HHMI) is a medical research organization that selects its investigators from among the faculties of universities and academic health centers around the country. HHMI solicits nominations from these institutions, with a view to identifying researchers with the potential to make significant contributions to science. Those selected as investigators are appointed for five- or seven-year terms, which may be renewed after a rigorous review process. There are currently 11 Columbia faculty members who hold appointments as HHMI investigators.

Researchers in the HHMI program at Columbia are pioneers in the fields of structural biology, neuroscience, genetics, cell biology, and computational biology. Columbia's HHMI investigators have made many notable contributions to biomedical research including advances in understanding the molecular basis of learning and memory; some of the structural features of the human immunodeficiency virus; and the molecular logic that underlies olfaction. Current HHMI investigators at Columbia are Drs. Richard Axel, Stephen P. Goff, Eric Gouaux, Iva S. Greenwald, Wayne A. Hendrickson, Barry Honig, Thomas M. Jessell, Eric R. Kandel, Anna Marie Pyle, Steven A. Siegelbaum and Gary Struhl.

HOWARD HUGHES MEDICAL INSTITUTE PROGRAM IN MOLECULAR NEUROBIOLOGY

The Howard Hughes Medical Institute Program in Molecular Neurobiology is one of several HHMI Programs in the country to be devoted to the neurosciences. Its establishment in 1984 made possible the scientific integration of the College's widely acclaimed research efforts in neurobiology of ion channels, learning, perception, development, and critical areas of molecular genetics. In addition to five established investigators in these fields, the center personnel include postdoctoral fellows, staff scientists, and support staff.

HOWARD HUGHES MEDICAL INSTITUTE PROGRAM IN STRUCTURAL BIOLOGY

Begun in 1986, the Howard Hughes Medical Institute Program in Structural Biology is part of a larger effort by the Institute, which houses several of its research laboratories in various medical centers. The program at Columbia focuses on biophysical studies of molecular structure with three major areas of activity: direct research activities in diffraction studies of macromolecular structure and function, core facilities for molecular biophysics, and a synchroton radiation resource at Brookhaven National Laboratory.

THE NEW YORK STATE CENTER FOR ADVANCED TECHNOLOGY IN INFORMATION MANAGEMENT

The Center for Advanced Technology (CAT) is sponsored by the New York Office of Science, Technology, and Academic Research (NYSTAR). The CAT at Columbia University is a joint effort of the Department of Medical Informatics, the Computer Science Department, and the Columbia Genome Center. The goal of the CAT is to advance and disseminate its technology and to help industry develop commercial applications.

RICHARD AND HINDA ROSENTHAL CENTER FOR COMPLEMENTARY AND ALTERNATIVE MEDICINE

The Richard and Hinda Rosenthal Center for Complementary and Alternative Medicine was established to conduct and critically evaluate research, to develop training and educational programs for healthcare professionals, and to serve as a resource for those who want comprehensive, objective information on complementary and alternative medicine. The center does not provide clinical services, nor is its role one of advocacy. It does support clinical and basic research projects that span a spectrum of faculty interests. Phytomedicine is one area of particular focus; women's health is another.

The Center attracts faculty collaborators from the various schools and departments at the medical center and the Columbia University campus more broadly. Center projects include: developing an international database and information resource on alternative medicine, compiling a directory of alternative medicine resources available at Columbia, studies of herbal remedies with an initial focus on menopause and breast cancer, and an "urban ethnobotany" project in New York City in collaboration with the New York Botanical Garden. Several international collaborations are under way, and development of a summer fellowship abroad for practitioners and researchers who want to learn more about various traditional medical systems is being planned. The Center strives to support policies that help to conserve botanical resources and the diverse traditional medical knowledge of the use of those resources.

Curriculum development and research training programs are being developed to promote knowledge, understanding and credible scientific efforts in alternative and complementary medicine. The Center, based in the Department of Rehabilitation Medicine, sponsors an elective course on complementary and alternative medicine for second-year medical students, an alternative medicine grand-rounds series, annual lectures, and symposia on special topics. It also sponsors an annual Continuing Medical Education course on "Botanical Medicine in Modern Clinical Practice," for physicians, nurses and other health care providers.

The Center's web site disseminates information about its programs, compiles information sheets on selected topics, and provides links to other relevant sources of information. The web site address is: http://cpmcnet.columbia.edu/dept/rosenthal/.

INTERNATIONAL INSTITUTE FOR THE STUDY OF HUMAN REPRODUCTION

The International Institute for the Study of Human Reproduction was founded in 1965 by Dr. Howard C. Taylor and was made possible by a substantial grant from the Ford Foundation. The primary purpose of the founders was to foster research in the sciences relevant to the solution of the world population

problem. In more recent years, the aims of the institute have been interpreted more broadly to include teaching, research, and the provision of clinical and social services related to the reproductive health of men and women.

THE CENTER FOR POPULATION AND FAMILY HEALTH

The Center for Population and Family Health addresses the reproductive, adolescent and child health conditions that confront communities throughout the world, in both settled communities and ones that have been displaced as a result of political or environmental emergencies. In addition to international activities, the Center has a particular interest in the needs of the communities in which the Center is located, in northern Manhattan. The Center contributes to the improvement of community health by supporting activities and programs that educate future generations of public health workers, provide direct services to populations in need, and promote research and policy analyses that increase our knowledge and that contribute to the quality of service-delivery programs.

The Center is committed to these areas of education, service and research, not as distinct and isolated categories, but rather as highly interdependent activities. The Center's goal of improving community health will be achieved when teaching, service and research contribute, in a coordinated way, to identifying and implementing strategies to improve health.

An important component of the Center's work is a series of public health services that the Center provides in Washington Heights. In collaboration with New York-Presbyterian Hospital, the Center operates family planning clinics and a Head Start program for preschoolers. The Center has approximately 150 staff members and a budget that is largely funded by government agencies, foundations, individuals and Columbia University.

The Center for Population and Family Health is located at 60 Haven Avenue, Floor B-2, New York, NY 10032. The Center's phone number is (212) 304-5200.

AFFILIATED HOSPITALS

NEW YORK-PRESBYTERIAN HOSPITAL

New York-Presbyterian is the largest hospital in New York and one of the most comprehensive health care institutions in the world. It was created in 1997 by the merger of two world-class institutions, Presbyterian Hospital and New York Hospital. New York-Presbyterian Hospital is the primary teaching hospital of the two leading academic affiliates — the Columbia University College of Physicians and Surgeons and the Joan and Sanford I. Weill Medical College of Cornell University.

New York-Presbyterian Hospital has two main campuses in Manhattan—the New York Weill Cornell Center on the East Side and the Columbia-Presbyterian Medical Center in Washington Heights. Because most Columbia learning experiences take place in the Allen Pavilion; at the hospital's community-based practices in Washington Heights, Inwood, and Harlem; or at the Columbia-Presbyterian Medical Center (which opened in 1928, representing the historic alliance of Columbia University and Presbyterian Hospital), the facilities of those locations are described here:

THE NEW YORK ORTHOPAEDIC HOSPITAL, the orthopaedic surgery service at Columbia-Presbyterian, opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the president of the same name. The first artificial joints for hips, shoulders, and knees were developed there.

SQUIER UROLOGICAL CLINIC is the urology service of Columbia-Presbyterian Medical Center.

SLOANE HOSPITAL FOR WOMEN, the obstetrics and gynecology service at Columbia-Presbyterian, is best known for care of women at risk for difficult pregnancies or complex reproductive endocrinology and infertility problems and for treatment of cancers of the reproductive system. It has one of the nation's most successful in vitro fertilization programs and a nationally recognized center for research in reproduction.

MORGAN STANLEY CHILDREN'S HOSPITAL OF NEW YORK, founded in 1887 as Babies Hospital and formerly Babies & Children's Hospital, provides for general medical and surgical care of infants and children up to their late teens and care for premature babies. Its neonatal intensive care unit has been designated a center of excellence by the National Institutes of Health for treatment of respiratory disorders in premature babies. It also excels in treating infants and children with heart defects.

NEUROLOGICAL INSTITUTE, one of the first non-governmental hospitals in the country for the treatment of diseases of the nervous system, was founded in 1909. It is known for research in and treatment of Parkinson's disease, movement disorders, aneurysms, epilepsy, brain tumors, and strokes.

THE EDWARD S. HARKNESS EYE INSTITUTE, site of the ophthalmology service at Columbia-Presbyterian, was founded in 1933. The Eye Institute is a leading center for research in and treatment of all eye disorders including cataracts, tumors of the eye, and glaucoma, and has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye. The Eye Institute has been a pioneer in the clinical use of lasers and ultrasound.

VANDERBILT CLINIC was presented to Columbia University by the Vanderbilt family in 1888 and became part of the hospital in 1928. It comprises numerous outpatient clinics and provides excellent medical and surgical care in every discipline.

ATCHLEY PAVILION contains doctors' and administrative offices, as well as MRI and other ambulatory care services.

THE IRVING CENTER FOR CLINICAL RESEARCH provides resources to clinical investigators to stimulate multidisciplinary, intensive investigation of human disease and clinical pharmacology.

THE ALLEN PAVILION is a 300-bed community hospital located at 220th Street and Broadway. It opened in 1988 and offers a wide range of medical and surgical services to residents of northern Manhattan, Riverdale, and other Bronx communities.

THE AMBULATORY CARE NETWORK CORPORATION (ACNC) is a multisite network of doctors' offices that provide primary care to the Medical Center's surrounding community by Columbia-Presbyterian staff.

COLUMBIA-PRESBYTERIAN/EASTSIDE, conveniently located in midtown Manhattan, offers a comprehensive range of ambulatory-care services for adult and pediatric patients. Physicians, surgeons, and dentists provide outpatient specialty and subspecialty care. Special features and programs include state-of-the-art imaging, sports medicine, women's health, sleep disorder diagnosis and treatment, laboratory services, and physical and occupational therapy.

BASSETT HEALTHCARE

Bassett Healthcare is a network of 180 full-time, salaried primary and specialty physicians dedicated to patient care, teaching, and research. They practice at three hospitals and 20 outpatient facilities around the region. At the heart of the network are the Mary Imogene Bassett Hospital, a 180-bed teaching facility in Cooperstown, and the Bassett Clinic, an outpatient primary and specialty care center in Cooperstown. The teaching program for house staff and students is a highly personalized one based on a team approach to medical care. The medical library contains more than 30,000 volumes and 540 subscribed journals. Bassett has had a formal affiliation with Columbia since 1947.

HARLEM HOSPITAL CENTER

Harlem Hospital Center, founded in 1887, is a progressive acute general teaching hospital offering primary, secondary, and tertiary care for children and adults living in the Central Harlem area and environs. The main complex consists of seven buildings. Eleven strategically located satellites extend the hospital out into the community. Operating with 312 certified beds and managing more than a quarter million annual patient visits, the hospital functions as the primary health care provider for a catchment area of three and a half square miles. Since 1968, the College of Physicians & Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, has been responsible for all professional medical services in this hospital and nominates its professional staff. This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine and provides increasing opportunities for involvement in community medicine.

HELEN HAYES HOSPITAL

Helen Hayes Hospital in West Haverstraw, N.Y., is a 155-bed physical rehabilitation specialty hospital offering comprehensive medical rehabilitation and therapeutic services to people with traumatic injuries or chronic diseases, resulting in physical disability. Founded in 1900, the hospital is operated by the New York State Department of Health and has been associated formally with Columbia University since 1967. In 1988, the association was strengthened with an affiliation agreement between the hospital and CPMC, with CPMC physicians and dentists now providing the hospital's medical services.

ISABELLA GERIATRIC CENTER

With a reputation for excellence in medical and nursing care in Washington Heights, the Isabella Geriatric Center (IGC) is home to nearly 700 residents, who receive comprehensive medical care and enjoy diverse services in the institution's recently renovated and re-equipped long-term care facility.

IGC affiliated with P&S in 2000 to collaborate with Columbia on research on Alzheimer's disease, investigation of methods for the care of dementia patients, and other aspects of research such as geriatric neuropsychiatry, geriatric cardiology, and reviews of outcome of care. This agreement also explores possibilities for educational experiences at IGC for first-year students, physical diagnosis for second-year students, third-year primary care rotation, and special electives for fourth-year students. Also to be explored will be possibilities for graduate medical education and training for residents and fellows in neurology and psychiatry.

LAWRENCE HOSPITAL CENTER

Lawrence Hospital Center, a P&S affiliate and the fifth New York-Presbyterian Health Care network hospital, is a full service, 280-bed community hospital located in southern Westchester County. The hospital accommodates approximately 11,000 admissions and more than 27,000 emergency visits each year.

NEW YORK COLLEGE OF PODIATRIC MEDICINE

The New York College of Podiatric Medicine (NYCPM) is the largest and oldest of the seven U.S. schools for podiatric medicine. The institution has graduated more than 25 percent of all practicing podiatrists in the nation and has been at the forefront in podiatric care in terms of education, public awareness, government legislation, and professional advancement.

NYCPM affiliated with P&S in 2000 to explore collaboration in student teaching programs and graduate medical education, as well as continuing medical education for practitioners. Joint research programs will be considered involving foot care for diabetes and the elderly.

NYACK HOSPITAL

Nyack Hospital, a P&S affiliate since 1996, has 375 acute care beds, 21 newborn bassinets, and 10 intermediate care bassinets. Founded in 1895, the facility provides a variety of comprehensive acute care, emergency, rehabilitative, and outpatient services to its community in Rockland County, N.Y.

The hospital has several centers catering to such specialties as chest pain, ambulatory care, labor- and pediatric-related care for women and children, and breast imaging. Also offered is a wide variety of programs, including laser surgery, rehabilitation, alcoholism and detoxification treatment, surgical intensive care, medical intensive care, and coronary care. Nyack offers a pediatric residency program with Columbia-Presbyterian.

In 1999, Nyack opened a state-of-the-art cancer center that offers comprehensive diagnosis, treatment, education, prevention, and support. The Union State Bank Cancer Center features diagnostic imaging, radiation therapy, outpatient infusion therapy, and on-site medical oncology. The latter includes gynecological and pediatric oncology. Also offered at the center is an appearance service, a resource center with Internet access, and access to social services, counselors, and scheduling coordinator. The center is affiliated with the New York Presbyterian Network.

ST. LUKE'S-ROOSEVELT HOSPITAL CENTER

St. Luke's-Roosevelt Hospital Center is a 1,315 bed, tertiary care, private hospital serving the West Side of Manhattan, from midtown to Morningside Heights. The Hospital Center was formed in 1979 with the merger of St. Luke's Hospital Center and Roosevelt Hospital. Today, St. Luke's-Roosevelt is a proud member of Continuum Health Partner, Inc., whose other hospital members include Beth Israel Medical Center, the Long Island College Hospital in Brooklyn, and the New York Eye and Ear Infirmary. The St. Luke's Division and the Roosevelt Division both maintain emergency rooms and have been full university affiliated hospitals with the College of Physicians and Surgeons for close to a quarter of a century.

The St. Luke's-Roosevelt Hospital Center medical staff numbers approximately 1,250, and the house staff consists of more than 400 residents and fellows. The hospital has more than 120 primary and specialty care clinics and other outpatient programs totaling more than 325,000 visits annually.

St. Luke's-Roosevelt is recognized as a leader in such fields as cardiology and cardiac surgery, hand surgery, diabetes and weight management, kidney transplantation, pulmonary disease, and performing arts and sports medicine. The hospital's clinical-oriented research projects are involved in such areas as blood diseases, coronary artery disease, autoimmune disease, aneurysm disease, HIV, and obesity and nutrition.

ST. VINCENT'S HOSPITAL

St. Vincent's Medical Center in Bridgeport, Conn., is a 391-bed, tertiary-level hospital serving Fairfield and New Haven Counties. It specializes in cardiovascular, oncology, women's and family, behavioral health, and senior services, and has a medical staff of 450 physicians. Affiliated with New York Presbyterian Health Care and the Columbia University College of Physicians & Surgeons, St. Vincent's Medical Center is operated by St. Vincent's Health Services, an integrated health delivery network comprising 38 services and facilities. These include St. Vincent's College (two-year health sciences college awarding associate degrees), St. Vincent's Special Needs Services (for developmentally delayed children and adults), Hall-Brooke Hospital (psychiatric and behavioral health), and SVNS Care Link (home care). St. Vincent's Medical Center has held accreditation with commendation from the Joint Commission on Accreditation of Healthcare Organizations since 1993, and this year was named one of the "top 100" cardiac centers for angioplasty in the United States by HCIA Inc. St. Vincent's is sponsored by the Daughters of Charity National Health System.

STAMFORD HEALTH SYSTEM

Stamford Health System represents a healthcare delivery system that offers the community seamless, quality care in all stages of its citizens' lives. The Stamford Hospital, a not-for-profit, 305-bed facility, provides a wide range of high-quality acute care, as well as emergency and outpatient services to medical/surgical, obstetric, pediatric and psychiatric patients. The hospital also serves as a teaching facility with five medical residency programs and is designated as a Level II Trauma Center. Maternity Services include a Level II Neonatal Intensive Care unit, perinatology services including in-utero procedures and advanced fetal monitoring, and reproductive endocrinology and fertility programs. Stamford Health System also includes the Carl & Dorothy Bennett Cancer Center, Stamford Health Center, Diagnostic Imaging Center, the Rehabilitation Center, William & Sally Tandet Center for Continuing Care, Edgehill Continuing Care Retirement Community, Stamford Surgical Center, Visiting Nurse and Hospice Care Inc., and Stamford Corporate Health Services.

VALLEY HOSPITAL

Valley Hospital affiliated with P&S in 1995. This fully accredited, acute care, not-for-profit community hospital serves more than 300,000 people in Bergen County and adjoining communities. Located in Ridgewood, N.J., its current licensed capacity is 427 beds. The hospital is known for excellence in cardiology services, which include a full range of diagnostic and interventional cardiac treatment services. Among these services are surgery, angioplasty, electrophysiology studies, clinical trials, and the development of new techniques in open heart surgery.

NEW YORK STATE PSYCHIATRIC INSTITUTE

The institute is the oldest psychiatric research institute in the United States. It was built and is maintained by the New York State Office of Mental Health. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to do research into the causes and treatment of psychiatric illness, to provide education for mental health professionals, and to provide the highest quality of clinical care for patients with psychiatric disorders. The Institute currently maintains 30 major research and clinical departments, a research hospital, and a wide variety of specialized outpatient departments that provide diagnostic and treatment programs.

ADMISSION, REGISTRATION, EXPENSES, AND FINANCIAL AID

Entering classes are enrolled in the College in August of each year. The minimum requirement for admission is attendance for three academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions.

The college program must have included English, physics, biology, organic chemistry (including at least one semester of laboratory), and some other course in chemistry covering at least one academic year. Students applying for admission must also have taken the Medical College Admission Test within four years of the date of their application. The latest time the MCAT can be taken is the autumn of the year preceding anticipated enrollment. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

APPLICATION PROCEDURE

Application for admission is available online at the Admissions Office website at http://psadmissions.hs.columbia.edu. Paper application forms are also available and may be obtained by calling the Admissions Office at (212) 305-4673, by sending email to kac1@columbia.edu, or by filling out a web request at the Admissions Office website. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class. Application forms are available beginning in June of the year preceding admission, and they must be filed by October 15. The completed form must be accompanied by the application fee of $75. The fee helps to cover the cost of processing the application; it is therefore not refundable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores and transcripts. Applicants will be notified, also, when their applications have been completed; if such notification is not received within 60 days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation and transcripts is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested only by the Admissions Office.

SELECTION OF STUDENTS

The Committee on Admissions devotes months to the task of selecting a class of 150 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well. Admission will not be offered to any applicant who has not been interviewed by one of the College's representatives. Impressions from such an interview, as well as scores on the MCAT and academic records, will be considered in selecting individuals for admission. Other selection criteria are listed below.

The Committee places great importance on the fact that the students have learned to think for themselves, to explore, to work hard under their own initiative, to consider alternatives and make decisions, and develop a desire for a continuous program of self-education. In the selection of students, preference is given to those who, in the opinion of the Committee on Admissions, have shown high achievement in their college education, a mature sense of values, sound motivation, qualities of leadership, and ability to assume responsibility, and to those who have already given evidence that they are qualified to complete all requirements of our curriculum and to graduate as ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole person, the doctor must be a whole person. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

All applicants to P&S are evaluated and judged on an individual basis and a determination made as to whether the applicant has the essential functional abilities necessary to safely, effectively, and independently perform all of the requirements of the program. When appropriate, the school makes reasonable accommodations for the otherwise qualified handicapped students.

ADMISSION TO ADVANCED STANDING

Application for advanced standing is possible for students wishing to transfer into the second- or third-year classes. Transfer into the fourth year is not possible. Students from foreign schools wishing to transfer must apply to the second-, not the third-year class. The only applicants who can be considered for transfer into second- or the third-year classes are those who are currently enrolled in an accredited medical school, or else have been so enrolled within one year preceding the time they make application. The number of places available for transfer into both the second- and third-year classes is extremely limited, usually between two and four places for each class; in some years there have been no places available. The deadline for receipt of application for both classes is April 15.

ADMISSION OF FOREIGN STUDENTS

Applicants need not be citizens of this country, but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere, but they must have completed at least one full year of premedical training at a university in the United States. They must also have taken the MCAT no later than one year prior to enrollment. This same requirement regarding premedical education also pertains to foreign medical students who are applying for a transfer from a foreign medical school into our second term.

REGISTRATION

Before attending classes, incoming students must register with the

Student Administrative Services office during the registration period listed in the Academic Calendar. Incoming students are notified of the date, time, and place through information provided in the admissions packet. Thereafter, registrations are brought forward unless a student has a registration hold, which may be placed by the dean or placed if a student has an outstanding account balance. Information concerning registration, holds, and student account status is available in the Student Administrative Services office, located in Room 141 of the Black Building, as well as on the World Wide Web: http://www.columbia.edu/cu/students/. Daily office hours are 9 a.m. to 4:30 p.m. Special hours are posted.

All students are asked to give Social Security numbers when registering in the University. Students who do not have Social Security numbers should obtain them from their local Social Security office well in advance of registration. Foreign students should consult the International Students and Scholars Office, 524 Riverside Drive, Suite 200 (mailing address: International Students and Scholars Office, Columbia University, Mail Code 5724, New York, NY 10027) for further information.

Students who are not citizens of the United States and who need authorization for special billing of tuition and/or fees to foreign institutions, agencies, or sponsors should go to the Foreign Student Advisor with two copies of the sponsorship letter. Special billing authorization is required of students whose bills are to be sent to a third party for payment.

Columbia University policy mandates that all students in the Health Sciences must prove immunity to measles (rubeola), mumps, and rubella (MMR) in order to register for classes. The only acceptable proof is a copy of the laboratory results of titers (blood tests) that clearly document immunity to these diseases. Proof must be sent to Columbia University Student Health Service-MMR, 60 Haven Avenue, New York, NY 10032.

OTHER COURSES

Degree candidates in good standing who are enrolled for a full-time program in the current term may register for one or two courses (except during the summer term) in any division of the University without charge by filing a formal change-of-program application approved by the Associate Dean for Student Affairs. These forms are then filed in the Office of Student Administrative Services (Black Building, Room 141). Consult the Office of Student Administrative Services for fall and spring change-of-program dates.

FEES

The following fees, prescribed by statue, are in effect for 2001-2002 and are subject to change at the discretion of the Trustees.

University charges such as tuition and fees and residence hall plans are due and payable in full by the date announced before the beginning of each term. The full amount of any charge may be paid when due without penalty, or payment may be made in installments. If partial payments are made, a FINANCE CHARGE is assessed on amounts not paid by the due date on the initial bill received prior to registration and thereafter as indicated on subsequent monthly bills. All charges must be paid by the end of the term.

It is the policy of the University to withhold diplomas, certificates, and transcripts until all financial obligations have been met. Candidates for graduation are urged to pay their bills in full at least one month prior to graduation.

TUITION AND FEES

Projected tuition for the full course in medicine for one academic year (or the equivalent), payable in two installments	$32,454
Disability insurance	$68
Microscope/slide fee	$150
Computer access fee	$48

HEALTH SERVICE AND HOSPITALIZATION INSURANCE FEES

The following fees are subject to change at the discretion of the Trustees. For all full-time students, annual rates for individuals as of 2001-2002:

Student Health Service and hospitalization insurance	$1,625

(Two-person and family rates also are available)

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium for Empire Blue Cross hospitalization coverage. All full-time students must enroll in the Student Health Service and have hospitalization coverage. Students with comparable insurance coverage may waive the hospitalization insurance premium fee only, but proof of comparable coverage must be shown at the time of registration. Although fees for the Student Health Service are assessed automatically, new and returning students must complete enrollment paperwork annually. Waivers for hospital insurance fee assessment also must be requested annually.

New students must provide proof of immunity to measles, mumps, and rubella or submit to immunization on or before registering for classes.

APPLICATION FEES

For admission	$75

LATE REGISTRATION FEES

Full-Time

During late registration	$50
After late registration	$100

WITHDRAWAL AND ADJUSTMENT OF FEES

With the passage of the Higher Education Amendments of 1992 (Public Law 102-325), the University is required to implement a pro data refund policy for students who do not register or who withdraw or otherwise fail to complete an enrollment period. Refunds are a percentage of charges (including tuition, dining, and housing) assessed the student based on the date of the student's last day of attendance (separation) as reported by the dean of the student's school.

All students will be charged a withdrawal fee of $75.

A refund calculation will be based on the last day of attendance; however, a student may be charged for services (e.g., housing, dinning) utilized after the last day of attendance. These charges should not be paid with Title IV funds.

Certain fees are not refundable: Fees for service used prior to withdrawal, for materials and equipment purchased, for services that continue to be available after withdrawal, and fees paid to outside entities generally will not be refunded. Fees not subject to refund: health service, medical insurance/Blue Cross, catastrophic insurance, course-related fees (lab etc.), dental kit, microscope, case books, disability insurance, malpractice insurance, materials fee, orientation fee, international services charge, late registration fee, late payment fee, finance charges, computer fee, withdrawal fee.

Students will not be entitled to any portion of a refund until all Title IV programs are credited and all outstanding charges have been paid.

Refunds will be credited in the following order: Unsubsidized Federal Stafford Loan, Subsidized Federal Stafford Loan, Federal Perkins Loan,

other federal sources (such as Title VII funds), State, Private or Institutional Aid, Student.

The refund percentage is as follows (prorated for calendars of different durations):

1st week	100% refund
2nd week	90%
3rd week	80%
4th week	80%
5th week	70%
6th week	60%
7th week	60%
8th week	50%
9th week	40%
After the 9th week	——

APPLICATION OR RENEWAL OF APPLICATION FOR DEGREE

Degrees are awarded four times a year—in October, February, May and June. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the Office of Student Administrative Services, 630 West 168th Street. The last day to file for an October degree is August 1; for a February degree, December 1; and for a May or June degree, February 1. (When the application date occurs on a Saturday or Sunday, the deadline becomes the next business day.) Fourth-year students are automatically marked for a May degree after registration. The Registrar's Office contacts fourth year students via email to verify names.

If the student fails to earn the degree by the end of the conferral date for which he or she has made application, the student may renew the application for the following conferred date.

REQUEST FOR TRANSCRIPTS

The Family Educational Rights and Privacy Act of 1974 as amended prohibits the release of educational records by institutions without the specific written consent of the student or alumnus. Students or alumni may request copies of their records by writing to the Office of Student Administrative Services, Columbia University, 141 Black Building, 630 West 168th Street, New York, NY 10032.

Incoming students are assessed a one-time fee of $45. Thereafter, no fee is charged for ordering transcripts. Registered students or alumni with a valid University Network Identification (UNI) may order transcripts via the World Wide Web: http://www.columbia.edu/cu/students/.

ESTIMATED EXPENSES

Projected educational expenses for a student attending the College during the *first academic year* are as follows for 2001-2002:

Tuition	$32,454
Health and hospitalization insurance	1,625
Disability insurance	68
Microscope/slide fee	150
Lab coats	90
Equipment	535
Computer access fee	48
Books and supplies	1,310
Transportation to clinical courses	100
Transcripts fee	100

In addition to the educational costs listed above, each first-year student should budget approximately $11,506 for living expenses ($5,292 for housing, $4,207 for food, $633 for clothing and laundry costs, and $1,374 for miscellaneous expenses).

There are differences in the length of each academic year, and living and miscellaneous expenses vary. Each year the Committee on Financial Aid prepares a statement of estimated expenses for students in each year of the medical school curriculum. These statements are given to all financial aid applicants at the time of distribution of the financial aid policy statement.

MICROSCOPE, INSTRUMENTS, AND BOOKS

Students are required to have microscopes for courses in the first and second years of medical school. Microscope rental is provided by the college; the $150 annual fee is billed directly to student accounts.

Students are required to purchase dissection equipment for the first-year course in gross anatomy and instruments for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of each academic year.

HOUSING

The Health Sciences Housing Office serves as the central assignment office for all University-owned housing on the Health Sciences campus. Bard Hall and Georgian Residence are in the University Residence Halls division of the office. The Institutional Real Estate division covers Bard-Haven Towers (Towers 1, 2, and 3) and buildings at 106 and 154 Haven Avenue. The Housing Office manages the day-to-day operations for the residence halls, University guest accommodations, recreational/athletic facilities, and conference room scheduling for Bard Hall. The Health Sciences Office is located in Bard Hall, 50 Haven Avenue, New York, NY 10032, phone (212) 304-7000, fax (212) 544-1900.

ON-CAMPUS HOUSING

Many first-year medical students choose to live on campus. All first-year single medical students are guaranteed a housing assignment in Bard Hall. Located at 50 Haven Avenue and overlooking the Hudson River and the George Washington Bridge, Bard Hall is an 11-story facility that houses 300 students in single rooms. Each room is approximately 10' x 13'. Many of the rooms are equipped with sinks. A community shower and bathroom is located on each floor. Assignments to Bard Hall are based on the date of receipt of application, accommodation availability, and, whenever possible, students' preferences for type of accommodation.

Housing for couples at the Health Sciences Campus is available to both married couples and couples living in domestic partnerships. Because of the limited availability of such housing on the Health Sciences Campus, the status of any couple applying for this housing will be verified. A married couple will be asked to submit a copy of the marriage license and domestic partners will be asked to supply proof of their status. This housing is assigned on the basis of distance of current residence from campus and date of receipt of application. Assignments are made according to accommodation availability and, whenever possible preferences for accommodation. Housing is allocated on a non-discriminatory basis.

One bedroom apartments for couples are available at 60, 100, and 154 Haven Avenue.

GUEST ACCOMMODATIONS

The Housing Office provides guests accommodations for affiliates of the University and visitors to the campus. The guest rooms located in Bard

Hall include eight Ivy League single or double suites and the Samuel Bard Suite, a fully furnished guest apartment with living room, bedroom, bath, and fully equipped kitchen. Reservations can be made for overnight or extended stays by contacting the Housing Office during business hours.

RECREATIONAL/ATHLETIC FACILITIES

Bard Hall Commons is the center for activities on the Health Sciences Campus. The Commons includes offices, the main lounge, the solarium/game room, the Recovery Room Lounge, and a photo lab on the main level of Bard Hall, the dining room and weight room on the 1B level and the Bard Athletic Center on the 3B level. The Bard Athletic Center is designed to meet the fitness needs of today. The facility encompasses a 20-yard swimming pool, three squash courts, a gymnasium, an aerobics room, Nautilus and Universal exercise equipment, dumbbell sets and benches, stationary bicycles, rowing machines, treadmills, lockers, showers, and saunas. The facility is handicapped-accessible. There is no membership fee for Health Sciences students. Student spouse/domestic partner memberships and guest passes are available. The center offers an extensive aerobics program. Information regarding all center services and fees are available through the Housing Office or the Bard Operations Desk at (212) 305-6853.

OFF-CAMPUS HOUSING

Students who seek off-campus housing may utilize the Off-Campus Housing Resources Center located in Room 105, Bard Hall.

DISABILITY-RELATED SERVICES

Students with permanent or temporary disabilities who wish to request special arrangements are urged to notify the School's liaison officer for disability-related services as early as possible: Dr. Linda Lewis, P&S 3-401; (212) 305-3806. Services to students with permanent and temporary disabilities are coordinated through the University Office of Disability Services. Students are encouraged to call or stop by the Office to discuss any academic accommodations they may need or other related concerns they may have. The Office is located in 802 Alfred Lerner Hall. Phone: 854-2388, TDD: 854-2388.

FINANCIAL AID

The Office of Student Financial Planning provides information on financial aid opportunities at P&S. Offers of admission are accompanied by an application packet and a financial aid handbook which details financial aid programs as well as policies and procedures. Updated application packets and handbooks are distributed each year at the end of January.

Federal student loans and private student loan programs are available to cover educational expenses that cannot be met with family resources. P&S also annually awards more than $7 million in need-based grants, scholarships, and low cost loans. Applicants for need-based funds must provide financial data for themselves and their parents in order to be considered. Need is established by completing the Free Application for Federal Student Aid (FAFSA) and our internal student and parent questionnaires.

All financial aid awards are based on demonstrated need. Each applicant for financial aid is required to borrow a sum of money (unit loan) before becoming eligible for grants and scholarships administered by the College. Financial aid awards are meant to supplement, rather than substitute for, student and parental resources.

Spouses of medical students can consult the personnel offices of the College of Physicians and Surgeons and of New York-Presbyterian Hospital for information regarding employment at the Medical Center.

Visit our web site at http://cpmcnet.columbia.edu/student/finaid/ for detailed information, Q&A's on the financial aid process, and many useful links.

SCHOLARSHIPS

Students are urged to determine the availability of scholarship assistance from the states in which they reside and to make application for such funds when appropriate. As an example, New York State provides funds through the Tuition Assistance Program to residents who meet financial qualifications. In addition, New York State offers the New York Regents Health Care Scholarships for Medicine and Dentistry. Awards are up to $10,000 per year. Applicants must be legal residents of New York State for one year prior to applying and be enrolled in a medical school or be candidates for admission to a medical school. Applicants must agree to practice medicine in an area of New York State designated as a shortage area. Awards will be made to eligible candidates in the following order of priority: (1) Candidate is economically disadvantaged and a minority group member historically underrepresented in the profession, (2) Candidate is a minority group member underrepresented in the profession, and, (3) Candidate completed undergraduate work through assistance from the HEOP, EOP, or SEEK opportunity programs. Applications and instructions may be obtained from:

New York State Education Department
Office of K-16 Initiatives and Access Programs
Scholarship Processing Unit
Room 1078 EBA
Albany, NY 12234
(518) 486-1319

Applications are usually due between the January and May prior to matriculation. Students should be advised that these deadlines are strictly adhered to.

Among non-governmental sources of funding is the National Medical Fellowships, Inc., which awards fellowships to needy black Americans, American Indians, Mexican-Americans, and mainland Puerto Ricans. Applicants must be citizens of the United States. Awards are given to first- and second-year medical students. Enrolled medical students should apply to NMF at 110 West 32nd Street, New York, NY 10001 before March 1 for financial assistance for the second year of medical school. Applicants to medical school should request information from NMF.

There are a number of scholarship funds administered by the College. The named scholarships listed below have been donated by alumni, foundations, corporations, and friends of the University and are awarded to qualified students by the Office of Student Financial Planning. All students applying for school-based funds will automatically be considered for these special scholarships by providing all required financial information.

INTERNATIONAL STUDENTS WHO DO NOT HOLD A PERMANENT RESIDENT VISA

A significant portion of the financial aid packages comes from federally or state-sponsored programs, which require that the recipient/borrower be either a U.S. citizen or a permanent resident. A student in the United States with an F1 or F2 student visa or with a J1 or J2 exchange visitor visa or with a G-series or H-series visa cannot receive student aid from federally or state-sponsored sources but may qualify for and receive need-based school loans, "alternative loans" from outside sources, and grants from funds that are not federally or state-sponsored or with a G-series or H-series visa.

Despite eligibility for school funds, close to half of the cost of four years of medical school must be borne by the student in these categories

and by his or her family or external sources such as government, foundation, or private support. Therefore, to assure the College of the student's ability to pay, the student must, no later than two weeks prior to the first day of class each year, present proof to the Office of Student Financial Planning that the full cost for that year (as determined by the Financial Aid Officer) has been deposited in an account in the student's name at a bank in New York City. Adjustments to this amount will be made only if, after having completed the financial aid application materials in a timely manner, an "alternative loan" has been approved by the lender or a CU loan and/or P&S grant is awarded. In that case, the amount of the required deposit for the year may be reduced by the amount of aid awarded.

IMMIGRATION AFFAIRS OFFICE

The staff of the Immigration Affairs Office (IAO) serves many of the immigration-related needs of students and scholars on the Health Sciences campus. Staff members are available for advising on immigration-related questions. In addition, you should consult the IAO regarding any immigration issue that involves Columbia University Health Sciences sponsorship. International students and scholars at the Health Sciences campus may also take advantage of the social, cultural, and informative activities offered by the International Students and Scholars Office (ISSO) on the Morningside campus. You can visit its website at http://www.columbia.edu/cu/isso.

TAX WITHHOLDING FOR NON-RESIDENT ALIEN SCHOLARSHIP AND FELLOWSHIP RECIPIENTS

Although there are not many scholarships or fellowships for international students, students should be aware that scholarships and fellowships awarded are subject to taxation and 14 percent federal withholding on the amount in excess of tuition and fees. All teaching and research assistantships are taxable and subject to withholding based on your rate of pay.

Because of legal restrictions, the staff of the Immigration Affairs Office is not qualified to answer individual questions from international students regarding their tax liabilities. United States tax law is extremely complex and each student's situation varies. It is the responsibility of each international student at Columbia to understand his or her own tax situation. To assist you in learning about your tax-filing obligations and to provide you with correct and current information, there are annual tax seminars for all international students. Held in February, March, and early April, these programs are on the Morningside and Health Sciences campuses, conducted by accountants who specialize in international taxation. If you have questions when it is time to file your tax return, you should plan to attend one of these seminars.

Current tax information and forms are available from the Internal Revenue Service office at 290 Broadway (on the corner of Duane Street), fifth floor, Monday through Friday from 8 a.m. to 3:30 p.m., or by calling (800) 829-1040.

During tax season, forms are available in most post offices and libraries and some banks. Forms are also available at the IAO, the International Student and Scholars Office on the Morningside Campus, and the Lehman Library in the International Affairs Building. Publications may be ordered by calling the IRS at (800) 829-3676 or by downloading from its website at http://www.irs.ustreas.gov/prod/forms_pubs/.

ENDOWED SCHOLARSHIP FUNDS

ALLEN Gift of Mrs. Vivian B. Allen.

ANONYMOUS Several; awarded annually.

CHARLES BACON '87 MEMORIAL FUND Given by the family and friends of Charles Bacon'87 in his memory.

BANBURY From the Banbury Scholarship Fund.

ALICE IDA BERNHEIM '31 AND ABRAHAM PENNER '31 SCHOLARSHIP FUND For tuition.

ISAAC J. AND RENA HENLY BERNHEIM Given by the family in honor of Isaac J. and Rena Henly Bernheim.

ELSIE J. BIRTWHISTLE Founded by the will of Morell Birtwhistle, in memory of his wife.

E.M. BLUESTONE '19 SCHOLARSHIP FUND

GEORGE BLUMENTHAL, JR. From the George Blumenthal, Jr. Fund.

ALICE BOHMFALK CHARITABLE TRUST FUND FOR SCHOLARSHIPS Established by John Bohmfalk in memory of Charles Bohmfalk, P&S 1883.

JOHN FREDERICK BOHMFALK SCHOLARSHIP Merit scholarships established as a bequest by the late John Frederick Bohmfalk in memory of Charles Bohmfalk, P&S 1883.

ELIZABETH ROCK BRACKETT '29 SCHOLARSHIP FUND Bequest of Dr. Brackett, the income to be used for scholarship assistance for women medical students studying under the Faculty of Medicine.

MARTHA HAMILTON BRENNER SCHOLARSHIP FUND Established by E.C. Brenner '08.

HARRY BRITENSTOOL '01 SCHOLARSHIP FUND

GLADYS BROOKS SCHOLARSHIP FUND

DANIEL NOYES BROWN SCHOLARSHIP FUND Established in memory of Daniel Noyes Brown, P&S '32, for graduating seniors going into primary care medicine.

LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP FUND A merit scholarship awarded every four years.

DR. MOSES R. BUCHANAN MEMORIAL Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchanan.

DAVID C. BULL MEMORIAL In memory of Dr. David C. Bull, a former member of the Department of Surgery.

DR. H. GRIFFIN BULLWINKEL '20 AND MRS. LOLA LENHART BULLWINKEL FUND Given by Mrs. Bullwinkel in memory of her husband, Columbia College Class of 1917, P&S Class of 1920.

RICHARD BUTLER Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the School of Law, the School of Engineering and Applied Science, or the College of Physicians and Surgeons.

MILDRED O. CADIGAN FUND

LISLE C. CARTER SCHOLARSHIP FUND Established through the generosity of the Emilie H. Siebert Trust, for disadvantaged minority students.

TIMOTHY C. L. LIANG AND ESTHER CHANG SCHOLARSHIP

SAMUEL L. CHASE '32 SCHOLARSHIP

CHEEK (DR. JOANNE LLOYD-JONES) SCHOLARSHIP FUND Gift of Mrs. Arthur Rudd. Established in 1987.

ALONZO CLARK 1835 Founded by the will of Alonzo Clark, M.D., LL.D., for many years president of the College of Physicians and Surgeons.

CLASS OF 1890 Given by a member of the class.

CLASS OF 1899 Given by the class in commemoration of the 35th anniversary of its graduation.

CLASS OF 1912 Given by the class on the 15th anniversary of its graduation.

CLASS OF 1913 For medical student scholarships.

CLASS OF 1920 Given by the class on the 25th anniversary of its graduation.

CLASS OF 1924 To commemorate the 50th anniversary of its graduation.

CLASS OF 1928 Given at its 10th reunion.

CLASS OF 1932 For a scholarship room. Given by the class on the 25th anniversary of its graduation.

CLASS OF 1933 For a scholarship.

CLASS OF 1934 Awarded for medical student scholarships.

CLASS OF 1936 Given by the class on the 25th anniversary of its graduation.

CLASS OF 1937 Awarded for tuition of medical students.

CLASS OF 1938 Awarded annually to assist a student in the College of Physicians and Surgeons.

CLASS OF 1939 Awarded for medical student scholarships.

CLASS OF 1940 Awarded for medical student scholarships.

CLASS OF 1942 Awarded for medical student scholarships.

CLASS OF 1946 Given by members of the class.

CLASS OF 1952 Given by members of the class on the 10th anniversary of its graduation.

CLASS OF 1953 Given by members of the class.

CLASS OF 1954 Given by members of the class.

CLASS OF 1958 Given by members of the class.

CLASS OF 1959 Given by members of the class.

CLASS OF 1964 Established in memory of Dr. Howard Gerstel.

CLASS OF 1965 Given by members of the class.

HENRY D. CRUGER Request of Helen Cruger, in memory of the Henry D. Cruger family.

CHARLES A. DANA FOUNDATION, INC. Established by the foundation.

ANTHONY M. DEANGELIS '34 SCHOLARSHIP FUND Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

HORACE DENNETT Open to students in the third- and fourth-year classes.

DR. HERBERT JACKSON DESHON '30 SCHOLARSHIP FUND Established by bequest of Dr. DeShon, P&S '30.

DAVID M. DEVENDORF 1861 Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

MORRIS DINNERSTEIN '18 SCHOLARSHIP FUND

FRANCIS E. DOUGHTY 1869 Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

LAWRENCE JOHN DURANTE '61 Given by members of the Class of 1961, in memory of Lawrence John Durante. Awarded annually to a senior student with verified financial need by the Durante Scholarship Fund Committee after review of the applications of qualified students.

EDWARD PERCY EGLEE '13 Bequest of Edward Percy Eglee, Class of 1913, member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a clinical professor of medicine.

JOSEPH HERMAN AND HANNAH EICHNER Established by the will of Benjamin Bernard Eichner, Class of 1919.

ELLEANOR ELLINGER FUND

JOSEPH C. FOSTER Given by Mrs. Esther J. Foster, in memory of her husband.

VIRGINIA KNEELAND FRANTZ '22 Bequest of Dr. Frantz.

NELLIE ALDEN FRANZ Bequest of Nellie A. Franz to Columbia University for scholarships to worthy young women for undergraduate or graduate study, with preference for those interested in medicine, nursing, sociology, and journalism.

JOSEPH H. FRIES '29 MEMORIAL SCHOLARSHIP

DAVID GABERMAN '20 SCHOLARSHIP FUND

ARTHUR AND CORNELIA GANS SCHOLARSHIP FUND BEQUEST of Cornelia Gans to the College of Physicians and Surgeons to provide scholarships for needy and worthy students of American or Dutch nationality.

GEORGE AND CHARLIE Given by the Alumni Association of the College, in memory of George Peters and Charles Costello, longtime employees of the Medical Center.

JOSEPH V. AND ANDREW L. GIFFUNI FUND Endowed by Andrew Giffuni in honor of Dr. Charles E. Hamilton, '18.

RODMAN GILDER '44 SCHOLARSHIP

NORMAN GOETZ '06 SCHOLARSHIP FUND

DEWITT M. GOODMAN MEMORIAL SCHOLARSHIP

ROBERT I. GRAUSMAN '21 SCHOLARSHIP FUND Established by Grausman, P&S '21, and continued in his memory by family and friends.

R.G. HADDAD FOUNDATION SCHOLARSHIP For medical students who are U.S. citizens of Syrian or Lebanese descent.

JACOB HARSEN P&S 1825 SCHOLARSHIP FUND Given by Dr. Jacob Harsen.

FRANK HARTLEY 1880 SCHOLARSHIP FUND Given by friends and colleagues of Dr. Frank Hartley, class of 1880.

HELEN HAYES Established by the College of Physicians and Surgeons to honor Miss Hayes for her four decades of service and devotion to Helen Hayes Hospital, a New York State-owned Columbia affiliate.

MARGARET HAYNES MINORITY SCHOLARSHIP

HAROLD HELM Established by the College to honor Mr. Helm, for his statesmanship and leadership as a chairman of the Medi/Center 1 campaign and for all his efforts on behalf of the University.

WILLIAM H. HEMINGWAY

JEAN HENDERSON '21 MEMORIAL SCHOLARSHIP FUND

MARGARET AND E. FREEMAN HERSEY '48 SCHOLARSHIP FUND

AARON HIMMELSTEIN MEMORIAL Open to all undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

IRMA T. HIRSCHL SCHOLARSHIPS From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, and easing of pain and protection of life.

MADAME LEIN-SUN HO SCHOLARSHIP FUND Established by Dr. Karen K. Fu, P&S '67, in memory of her mother.

THE MILDRED HOFFBERG SCHOLARSHIP FUND Established in honor of Charles Flood '28 and his wife.

ESTHER HO-KUNG '76 SCHOLARSHIP For Asian-American female students.

THOMAS R. '54 AND ENEIDA G. HOLLAND SCHOLARSHIP FUND Endowed by Thomas and Eneida Holland.

RODERICK HOUTS SCHOLARSHIP

CHARLES EUGENE HUBER, SR. 1896 SCHOLARSHIP FUND Bequest of Francis D. Huber, Class of 1928, in memory of his father.

FRANCIS HUBER '28 SCHOLARSHIP Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber, Class of 1928.

VIOLA B. HUBER Open to a graduate of Hunter College. Given by Dr. Francis Huber.

ABRAHAM JACOBI For graduates of Columbia University and City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

JACOBY PRESIDENTIAL SCHOLARSHIP

EDWARD R. JEAL Awarded to deserving students under the Faculty of Medicine.

D. REES JENSEN '25 SCHOLARSHIP FUND

RUTH ANN JORDAN '57 SCHOLARSHIP

VERA JOSEPH '36 AND JEROME S. PETERSON '31 MINORITY STUDENT SCHOLARSHIP FUND

TIMOTHY C.L. LIANG AND ESTHER CHANG SCHOLARSHIP

CHARLES CHRISTIAN LIEB '06 Awarded to a student interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

LI MING Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

BARBARA LISKIN '79 EDUCATION FUND

ROGER MACKINNON '50 PSYCHOANALYTIC SCHOLARSHIP FUND

MALCOLM X SCHOLARSHIP FUND Established by the College of Physicians and Surgeons to help further the education of black students interested in medical and public health problems prevalent in black communities.

MALLORY P&S SCHOLARSHIP FUND Established by Mrs. Louis Mallory in honor of Richard Stock '47.

HERBERT D. MANLEY '07 Given as bequest by the late Dr. Herbert D. Manley.

FRANCIS HARTMAN MARKOE P&S 1883 SCHOLARSHIP Given by Madeline Shelton Markoe, in memory of her husband.

MARJORIE MCANENY Open to a graduate of Barnard College. Given by Dr. Francis Huber, Class of 1928.

SHEILA AND STEPHEN M. MCCOY '37 SCHOLARSHIP FUND Endowed by Stephen J. and Sheila McCoy.

ELIZABETH HALL MCCULLOGH '33 Given by Mrs. William G. Heaphy, in memory of her sister, Dr. Elizabeth McCullogh, an alumna of the College of Physicians and Surgeons, Class of 1933.

ARTHUR B. MCGRAW '19 SCHOLARSHIP FUND IN CPMC FUND INC.

MABEL C. MEAD Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

MICHELSEN SCHOLARSHIP FUND Established by Jost Michelsen '63.

VIVIAN AND SEYMOUR MILSTEIN ENDOWMENT FOR SCHOLARSHIPS Established by the donors in honor of their friends and physicians, Drs. David Habif '39 and Duane Todd '52.

MAUD GRUMBACHER MOODY SCHOLARSHIP FUND

SAMUEL J. MORITZ MEMORIAL Given by the executors of the estate of Samuel J. Moritz.

GULLI LINDH MULLER '21 Bequest of the donor to be awarded with preference to a gifted woman student.

KEN NAIDORF '77 MEMORIAL FUND

P&S SCHOLARSHIP AID AND LOAN FUND Established by the wives of the members of the Faculty of Medicine, faculty, friends of the College.

RUDOLPH AND MARY E. PFEIFFER Given by Mrs. Mary E. Pfeiffer.

RONALD C. PICOFF '60 MEMORIAL SCHOLARSHIP FUND Established in 1974 by Dr. Picoff's classmates.

TOUSSIA AND KERMIT PINES '42 SCHOLARSHIP FUND Endowed by Florence and Herbert Irving.

HARRY R. AND CATHERINE S. POTTER '42 SCHOLARSHIP

PRESBYTERIAN HOSPITAL ALUMNI SCHOLARSHIP Granted with preference to sons and daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

WILLIAM COLE RAPPLEYE Established at the retirement of Dean Rappleye.

RICHARD RHODEBECK Given by Mrs. Richard Rhodebeck, in memory of her husband.

EVELYN '58 AND KIM RICHTER SCHOLARSHIP FUND Endowed by Evelyn and Kim Richter.

NATHANIEL RITTER '44 SCHOLARSHIP

JAMES RODISH MEMORIAL SCHOLARSHIP Established by family and friends in memory of James Rodish, to be awarded in alternate years to a student in the School of Nursing and a student in the College of Physicians and Surgeons.

CAROL AND DAVID P. ROYE '75 SCHOLARSHIP FUND

SAGAMORE Awarded to needy students.

JOSEPH E. SAPHIR '02 MEMORIAL Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

THE MARY S. SAXE SCHOLARSHIP FUND Bequest of Mary S. Saxe.

ALMA SCHAPIRO ENDOWMENT FUND

THOMAS P. SCULCO '69 SCHOLARSHIP FUND

AURA E. SEVERINGHAUS Given by faculty members, alumni, and students, in honor of Dr. Severinghaus' services to the College.

TERESA SLOWINSKY SCHOLARSHIP Bequest of Teresa Slowinsky, the income to be used for scholarship assistance to a worthy, talented, industrious and needy young woman who has completed her junior or third year of study.

BERNARD E. SMITH MEMORIAL Given by Mrs. Gertrude Smith, in memory of her husband.

FRANK D. SPENCER SCHOLARSHIP

THE JAMES A. STEVENSON '43 MEMORIAL SCHOLARSHIP Established by Mrs. Ann Stevenson Hardesty, in memory of her brother James Albert Stevenson, Class of 1943.

EDGAR EGINTON STEWART, JR. MEMORIAL Given by Dr. E.E. Stewart, Class of 1906, in memory of his son.

ARTHUR PURDY STOUT '12 MEMORIAL Given by the Arthur Purdy Stout Society.

ARNOLD STURMDORF P&S 1886 Awarded to one or more students in their third or fourth years of medical school. Bequest of Miriam Sturmdorf.

DAVID TORNBERG '73 SCHOLARSHIP ENDOWMENT FUND

DIANA AND P. ROY VAGELOS '54 SCHOLARSHIP Established by P. Roy Vagelos, Class of 1954.

HAROLD S. VAUGHAN '04 Bequest of Dr. Harold Vaughan, Class of 1904.

ANDREA VICALE MEMORIAL Established by Dr. Carmine T. Vicale, in memory of his father.

HERMANN VOLLMER P&S 1883 Established in memory by his wife.

THEODORE L. VOSSELER Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

DR. CHARLES A. WEBSTER '43 INTERSCHOOL SCHOLARSHIP FUND

ROBERT M. WECHSLER '45 Given by Dr. I.S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

ISRAEL WEINSTEIN '26 FELLOWSHIP FUND

MARK AND BEULA WELCH SCHOLARSHIP FUND

WHITING-DR. FORDYCE B. ST. JOHN '09 SCHOLARSHIP FUND Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

DR. JAMES LANCELOT WILSON '16 Awarded to a student selected by the College of Physicians and Surgeons.

LYDIA AND DAVID WOLF SCHOLARSHIP FUND Given by Mr. and Mrs. Wolf to support a needy student of high academic standing and promise.

WOLFF '52 AND SHAINHOLZ '87 SCHOLARSHIP FUND Given by Drs. Marianne Wolff and Daniel Shainholz. Awarded to compassionate, needy students with outstanding academic records.

JOHN C. WOOD, JR. '76 MEMORIAL Established by family and friends in memory of Dr. Wood, Class of 1976.

WOODRUFF

WORTHAM '43M (MARION H. AND EDWIN III) MEMORIAL SCHOLARSHIP FUND

CLYDE AND HELEN WU '56 LOAN FUND

GIFT FUNDS

ANONYMOUS SCHOLARSHIP '65

BALSO P&S ALUMNI SCHOLARSHIP

ALAN AND RUTH BORENSTEIN MEDICAL SCHOLARSHIP FUND In honor of George Ticktin, Class of 1937.

CLASS OF 1948 SCHOLARSHIP

CLASS OF 1950 SCHOLARSHIP

VALERIE AND GEORGE DELACORTE FOUNDATION Annual gift.

EATON '83 MEMORIAL

GENERAL SCHOLARSHIP GIFT FUND Gifts and memorials by various donors.

JAMES T. LEE FOUNDATION, INC. Annual grant to medical students.

FREDERICK J. LUEDERS SCHOLARSHIP

ALFRED M. MARKOWITZ SCHOLARSHIP FUND

RICHARD P. NESTI '61 SCHOLARSHIP

NIAS FOUNDATION FOR STUDENT LOANS Stanley Edelman, Class of 1953.

P&S ALUMNI SCHOLARSHIP

ROSENBLATT FAMILY SCHOLARSHIP

JACK AND SUSAN RUDIN EDUCATIONAL SCHOLARSHIP FUND

LOUIS AND RACHEL RUDIN Established by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

AURA E. SEVERINGHAUS Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily to support students and their activities. Priority given to fourth-year students who have increased living and transportation costs because of electing clerkships at Bassett Healthcare, Cooperstown, NY.

JULIUS E. STOLFI MEDICAL EDUCATION AND RESEARCH FUND SCHOLARSHIP

THE SULZBERGER FOUNDATION Annual gift by Judith Sulzberger '49. Awarded to senior students with very good academic records, significant financial need, and plans to pursue careers in family medicine or general internal medicine in non-urban areas.

J.T. TAI FOUNDATION

DONALD F. TAPLEY MEMORIAL SCHOLARSHIP AND LOAN FUND

DONALD AND ITASKER THORNTON SCHOLARSHIP

UNITED DOCTORS OF HARLEM HOSPITAL Annual gift awarded to entering minority students from the metropolitan area.

RALPH J. VEENEMA SCHOLARSHIP

LOANS

Loans are available to all full-time students. Students should be aware that some lenders use creditworthiness as one of the criteria for determining eligibility for loans. Therefore, students with poor credit ratings must rectify past problems before they matriculate. This is particularly true for those who may need to borrow in excess of the standard loan portion of the package to cover parental contribution or additional expenses. The College cannot be responsible if students are denied access to loans due to bad consumer credit or problems with prior educational loans.

An international student in the United States with an F1 or F2 student visa, with a J1 or J2 exchange visitor visa, or with a G-series or H-series visa cannot receive need-based aid from federal or state sources, but may qualify for and receive need-based school loans or "alternative loans" from outside sources which are not federally or state-sponsored. All loans for international students require creditworthy co-makers who are U.S. citizens or permanent residents. International students who acquire permanent resident status prior to graduation will become eligible for state and federal assistance, and for P&S need-based aids from federal sources.

EXTERNAL LOANS

Federal Stafford Student Loans (Subsidized and Unsubsidized). The Federal Stafford Student Loan program is designed to make low-interest loans available to students to help them meet their educational expenses. You may qualify for a "Subsidized" Federal Stafford Loan which is based on financial need. If you qualify for a Subsidized Federal Stafford Loan, the federal government pays the interest on the loan to the lender (i.e. "subsidizes" it) while you are in school, in grace, or in deferment periods.

If you have a non-need-based Stafford, you have an "Unsubsidized" Federal Stafford Loan, and you will be responsible for the interest during in-school and deferment periods, although you may postpone paying the interest.

Loans are available from commercial and savings banks, savings and loan associations, and credit unions. They are insured by the guaranty agency in each state or a private guaranty agency and reinsured by the federal government.

The standard annual loan limit for graduate students is $18,500 (up to $8,500 may be Subsidized). The total debt allowed for graduate or professional study is $138,500 ($65,500 in Subsidized Federal Stafford Loans and $73,000 in Unsubsidized Staffords). The graduate debt limit includes any Federal Stafford loans received as an undergraduate.

An origination fee of 3% may be deducted proportionately from each loan disbursement. This fee is passed on to the federal government to help reduce the government's cost for these loans. Lenders may also collect an insurance premium of up to 1% which is also deducted proportionately from each disbursement. Regardless of prior borrowing, all new loans made after July 1, 1994 carry a variable interest rate which is capped at 8.25%.

Following a six month grace period and any authorized deferments, a borrower may have up to ten years to repay both principal and interest. If you refinance Staffords under Federal Loan Consolidation, you may extend your repayment period beyond ten years.

Alternative Loan Programs (ALP). These loans are not part of the standard package of P&S recommended loans because interest begins to accrue immediately upon disbursement - no payments are due while in school. They have variable interest rates, without any upper limit. These loans can replace "calculated parental contributions" or allowable expenses which exceed the standard budget.

Student Financial Planning will recommend the best loan available at the time of application. Because terms change often, our office monitors these products to determine which have the most competitive interest rates, origination fees, capitalization policies, deferment options, annual and aggregate loan limit, etc.

COLUMBIA UNIVERSITY LOANS

The *Federal Perkins Loan* program provides long-term, low-interest (5%) loans to students demonstrating exceptional need as defined by the institution. The aggregate amount of Perkins funds a graduate student may receive from all undergraduate and graduate institutions is $40,000; the annual maximum is $6,000. No interest accrues while you are in school or during grace and deferment periods. Once grace and deferment periods have expired, the maximum repayment period is ten years.

The *Primary Care Loan (PCL)* program provides long-term, low interest (5%) loans to students with exceptional financial need. No interest accrues while you are in school or during grace and deferment periods. Principal and interest are repayable over a ten-year period. This loan program, which had been the *Health Professions Student Loan Program (HPSL),* has the added requirements that you agree to enter and complete a residency training program in primary health care not later than 4 years after the date on which you graduate and also that you practice in such care through the date on which the loan is repaid in full. If you fail to comply with the new requirements, the balance due on your loan will immediately be recomputed from the date of issuance at an interest rate of 12% per year, compounded annually; and the recomputed balance would be payable to the Government not later than 3 years after the date on which you failed to comply.

Fourth-year students who have completed application for residencies are given preference, due to the severe financial penalties the borrower will incur if s/he does not pursue practice in an approved primary care field [this currently includes family medicine, general internal medicine, general pediatrics, and med-peds].

The *Loans for Disadvantaged Students (LDS)* program also provides long term, low interest loans to students from disadvantaged backgrounds with financial need. The interest rate (5%) and other provisions are essentially the same as those for the PCL loan program described above, except that there is no service requirement.

The *Donald F. Tapley, M.D. Loan* (formerly the P&S Dean's Loan) fund was established in 1982 by the College to offset the burden of "high-interest" loans to students with demonstrated financial need. Repayment of the loan may be deferred until you have completed advanced professional training, including all fellowships, regardless of length. No interest accrues while you are in school or during grace and deferment periods. Following periods of deferment, principal and interest (9%) are repayable over a maximum of ten years.

"Named" Columbia University Loans are low-interest (4-9%, but most are 9%) loans available to students who demonstrate financial need. Repayment terms vary with each fund. Most require repayment to commence six or nine months after graduation with a maximum repayment period of ten years. In rare cases CU loans will require a co-maker. No interest is assessed during in-school and deferment periods.

PETER AMAZON '21 Bequest of Peter Amazon.

LEONARD ALEXANDER ARMS Bequest of Lydia B. Arms, in memory of her husband, to create a revolving loan fund for scholarship and research to medical students and graduates at P&S.

GEORGE BLUMENTHAL, JR. Used for the assistance of needy students in the medical school.

DR. HARRY BRITTENSTOOL '01 MEMORIAL From the estate of Mrs. Blanche B. Ostheimer, in honor of her brother.

CLASS OF 1906 Gifts from various members of the Class of 1906.

CLASS OF 1919 Gifts from various members of the Class of 1919. To be used for loans to deserving students.

CAROL ELISSA GARDNER '41 Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

FRANK J. GILLESPIE FUND From the estate of Frank J. Gillespie. To be used for medical students interested in the field of surgery.

DAVID GREENE A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

GEORGE L. HAWKINS, JR. '41 Gift of George L. Hawkins, Jr., Class of 1941.

B.H. HOMAN, JR. REVOLVING LOAN FUND Long-term, low-interest loans for needy students.

WILLIAM AND ROSE KEYBURTZ SCHOLARSHIP LOAN FUND Established by bequest of Dr. Orland L. Keyburtz in honor of his parents.

ROBERT ABBE MACKENZIE '21 Established by friends, colleagues, and patients of Dr. Mackenzie, an alumnus of the Class of 1921.

SIGMUND '22 AND REBECCA MAGE LOAN FUND Established by bequest of Sigmund and Rebecca Leighlow Mage.

GEORGE W. MERCK MEMORIAL Established by the Merck Company Foundation in honor of George W. Merck. For graduates of P&S who need to move more than 300 miles from New York City for their residency training.

JESSIE SMITH NOYES

P&S SCHOLARSHIP AND LOAN ENDOWMENT FUND Given by P&S alumni.

WALTER C. AND MARJORIE C. STEIN Bequest of Marjorie C. Stein.

STEINHARDT MEDICAL SCHOLARSHIP Bequest of Samuel C. Steinhardt. Awarded to graduates of one of the colleges of the City of New York who have attended public schools exclusively (except for religious instruction). To be repaid in 15 years; without interest for the first 10 years; with 5 percent annual interest thereafter on the unpaid balance.

MRS. AND DR. CLYDE WU, P&S '56 STUDENT LOAN FUND

In addition to the foregoing, periodically there are funds for short-term emergency loans, administered through the Health Sciences Office of Student Financial Planning.

PRIZES

DR. HARRY S. ALTMAN PRIZE Awarded to an outstanding senior student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarship in pediatrics.

ALUMNI ASSOCIATION AWARD Given for outstanding achievement.

VIRGINIA P. APGAR '33 AWARD Awarded to an outstanding graduate student for excellence in completing an advanced course in anesthesiology and intensive care. Established by the Department of Anesthesiology in honor of Virginia P. Apgar, Class of 1933.

MICHAEL H. ARANOW AWARD Awarded to the student who exemplifies the caring and humane qualities of the practicing physician.

HERBERT J. BARTELSTONE AWARD IN PHARMACOLOGY Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher, and uncompromising advocate of the rigorous preparation in basic medical science in the education of the physician.

ALVIN BEHRENS MEMORIAL FUND AWARD of the Phi Lambda Medical Fraternity. Given to an able student planning a career in ophthalmology.

EDWARD T. BELLO '49 LISTENING AWARD Given by Jacqueline Bello '80 in honor of Edward T. Bello, award given to the graduating student who will best portray the art of listening in practicing their chosen field of medicine … to their parents, their colleagues, and themselves.

DR. ROBERT BERTSCH AWARD Established by Dr. Bertsch's colleagues in the Department of Surgery to perpetuate the memory of this esteemed physician and dedicated teacher; to be awarded to a graduating student who best typifies the aims and ideals of this devoted surgeon.

COAKLEY MEMORIAL PRIZE Awarded by the Department of Otolaryngology to a senior student who has done outstanding work in the field.

TITUS MUNSON COAN PRIZE Awarded to the senior student who has submitted the best essay in biological science or otherwise best contributed to its advancement. Bequest of Titus M. Coan.

THOMAS F. COCK, M.D. PRIZE Awarded to a senior student for excellence in obstetrics and gynecology.

ROSAMOND KANE CUMMINS '52 AWARD Established by the Alumni Association for excellence in orthopaedic surgery, to be given to a member of the graduating class who has demonstrated those special qualities of mind and heart that mark the comforter and healer.

ARTHUR '21 AND IRENE FISHBERG PRIZE FUND

GATE PHARMACEUTICALS AWARD Given to a graduating student who has excelled in the study of obstetrics and gynecology or family practice.

FREDERICK PARKER GAY MEMORIAL AWARD Awarded to the senior student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay, in memory of her husband.

LOUIS GIBOFSKY MEMORIAL PRIZE Awarded to a senior student who submits the best research paper in nephrology, dialysis, transplantation, or immunobiology. The award is in memory of Louis Gibofsky.

THE ARNOLD P. GOLD FOUNDATION AWARD Given to a graduating medical student who has demonstrated clinical excellence and the ideals of the humanitarian care giver.

THE DOCTOR CHARLES E. HAMILTON '18 AWARD Established by Mr. Andrew L. Giffuni to honor Dr. Hamilton, Class of 1918, for excellence in pulmonary diseases.

JANEWAY '27 PRIZE Awarded to the student graduating from the College with the highest marks for achievement and ability. Given by the bequest of Matilda S.J. Wisner.

THE ALBERT B. KNAPP SCHOLARSHIP Awarded at the conclusion of the third year to the medical student considered by the Medical Faculty to have achieved the highest scholarship in the first three years.

ABBIE I. KNOWLTON '42 PRIZE FUND Annual awards to a second and a third year medical student to defray text book expenses.

DR. HAROLD LAMPORT '34 BIOMEDICAL RESEARCH PRIZE Awarded to a senior student for the best thesis reporting original biomedical research. Gift of the Lamport Foundation.

JOHN K. LATTIMER PRIZE IN UROLOGY Awarded to senior students for the best essays on urological subjects.

THE BARBARA LISKIN MEMORIAL AWARD IN PSYCHIATRY Awarded to the graduating student with the empathy, scholarship, and excellence exhibited by Barbara Liskin.

ROBERT F. LOEB AWARD Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and chairman of the Department of Medicine from 1947 to 1959.

F. PHILIP LOWENFISH PRIZE IN DERMATOLOGY Awarded to the individual who has done the most creative and original research in dermatology. Given by Mrs. Lowenfish, in her husband's memory.

ADMIRAL DAVID WILLARD LYON AWARD Awarded to a senior student on a military scholarship for outstanding academic achievement. Established by Dr. Edgar Housepian, Class of 1953, and Mrs. David Willard Lyon in memory of Admiral Lyon.

DOCTOR CECIL G. MARQUEZ BALSO STUDENT AWARD FOR EXCELLENCE Awarded to a graduating minority medical student for his/her outstanding contribution to the Black and Latin Student Organization and the minority communities.

EDITH AND DENTON MCKANE MEMORIAL AWARD Bequest of Edith U. McKane. Awarded to a senior student for excellence in basic or clinical research in ophthalmology.

DR. HAROLD LEE MEIERHOF '17 MEMORIAL AWARD Awarded on recommendation of the professor of pathology to the student who has done the best work in the field during the four years of medical school. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

DRS. WILLIAM NASTUK, BEATRICE SEEGAL, AND KONRAD HSU AWARD Given by Dr. Arthur J.L. Strauss, Class of 1958, for a successful student-faculty research collaboration.

MARIE NERCESSIAN MEMORIAL AWARD Gift of Ohannes Nercessian, Class of 1981. Awarded to a senior medical student who has shown care, unusual concern, and dedication to helping sick people.

NEW YORK ORTHOPAEDIC HOSPITAL AWARD An annual prize awarded to a senior student upon nomination by the Department of Orthopaedic Surgery, for outstanding performance in the field.

JOSEPH GARRISON PARKER '48 AWARD Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that living and learning go on together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

J. LAWRENCE POOL '32 PRIZE IN MEDICAL WRITING

P&S CLASS OF 1924, DR. ALLEN O. WHIPPLE MEMORIAL PRIZE Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

DEPARTMENT OF PSYCHIATRY PRIZE Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN ANATOMY AND CELL BIOLOGY An annual prize to be awarded to a graduating medical student or graduate student for scholarship and outstanding achievement in research in anatomy and cell biology.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN BIOCHEMISTRY An annual prize to be awarded to a graduating medical student or male graduate student for scholarship and outstanding achievement in biochemistry at the College of Physicians and Surgeons.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN GENETICS AND DEVELOPMENT An annual award to a graduating medical student or graduate student, who in scholarship and proficiency achieves the greatest distinction in genetics and development.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN PHYSIOLOGY An annual prize to be awarded to a graduating medical student or graduate student for scholarship and outstanding achievement in research in physiology.

THE REBECCA A. SCHWARZ MEMORIAL PRIZE Given by Dr. and Mrs. Steven Schwarz, Class of 1974, in memory of their daughter, to be awarded to an outstanding student on a pediatric cardiology elective.

HELEN M. SCIARRA PRIZE Awarded to a senior student in the College for outstanding work in neurology.

THE MIRIAM BERKMAN SPOTNITZ PRIZE Given by Dr. Hyman Spotnitz '39 in memory of Mrs. Spotnitz for outstanding research in the field of oncology.

DR. ALFRED STEINER '38 AWARD Presented annually to one or more students chosen by a faculty committee on the basis of achievement in medical research.

DR. WILLIAM PERRY WATSON PRIZE IN PEDIATRICS Awarded on the nomination of the professor of pediatrics to that member of the graduating class of the College who has shown the most notable work in the study of diseases of infants and children.

DR. WILLIAM RAYNER WATSON AWARD Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

SIGMUND L. WILENS PRIZE Awarded to a member of the graduating class who, in the opinion of the Department of Pathology, has been distinguished by special excellence in pathology. Gift of Dr. Marie Renate Dische Wilens, Class of 1957, in memory of her husband, Dr. Sigmund L. Wilens.

STUDENT AND ALUMNI ACTIVITIES

All students enrolled by the College enjoy the privileges and facilities of the University campus, including the University libraries.

P&S CLUB

Founded over 100 years ago, the P&S Club is a student-run organization which complements the formal medical education of P&S students by fostering creativity, camaraderie and leadership in over 50 extra-curricular student activities clubs. These clubs draw together the diverse talents of the students of P&S, encouraging artistic expression, the cultivation of both non-medical and career-specific interests, and the challenge of mind and body. From wine-tasting to rugby, theatre to international health, the P&S Club has something for everyone! The club's officers, elected from each class under the guidance of the Faculty Advisory Board, assume the entire responsibility for managing the club. Those who chair the various activities and groups assist these student officers. The P&S Club is the most active and comprehensive student organization in American medical education today.

ALPHA OMEGA ALPHA HONOR MEDICAL SOCIETY

A chapter of Alpha Omega Alpha, the national honor medical society, was founded at the College of Physicians and Surgeons in 1907. Students are elected to membership in the senior year by a committee of the faculty appointed by the Dean. The committee is chaired by the Alpha Omega Alpha Councilor of the College of Physicians and Surgeons. Student membership is determined according to the constitution of the national society. Consideration for election is limited to those whose scholastic qualifications place them in the upper 25 percent of the class. The number of student members elected from any class may not exceed one-sixth of the number expected to graduate in that class. Although scholastic excellence is required for membership, integrity, capacity for leadership, compassion, and fairness in dealing with one's colleagues are judged to be of equal significance.

P&S ALUMNI ASSOCIATION

The P&S Alumni Association fosters and maintains cordial relationships between the College of Physicians and Surgeons and its alumni. Liaison with the College is facilitated through the office of the Associate Dean for Alumni Affairs.

Members of the Alumni Association include all graduates of the College of Physicians and Surgeons, including M.D.s, Med.Sc.D.s, holders of Certificates in Psychoanalytic Medicine, and Ph.D. graduates of the Basic Sciences Curricula (Anatomy, Biochemistry, Human Genetics, Microbiology, Pathology, Pharmacology, and Physiology). Associate members are academic staff of the College, including interns, residents, and visiting fellows at all hospitals that affiliate their postgraduate training with P&S; P&S students; graduate students in the basic sciences; and spouses of active members.

The work of the Alumni Association is accomplished through the efforts of its officers and members of 14 standing committees, all of whom form the constituency of the P&S Alumni Council. The Association participates in the publication of *P&S*, a journal co-sponsored by the alumni and medical school. The journal serves as a major form of communication between the school and its alumni, faculty, students, and their parents, and other friends and associates of the College.

The P&S Alumni Association supports a wide variety of student-related projects, from the parents program, social events—such as a reception for new students, a holiday mixer for all students, a dinner-dance for graduating students, career forums, mentoring programs, and alumni visiting programs—to scholarships and financial aid.

Restricted revenues raised by the Alumni Association include funds for the student dormitory, scholarships, research, fellowships, professorships, and the Health Sciences Library. Unrestricted revenues allow the College flexibility to apply funds in areas of greatest need. Traditionally, a substantial stipend from unrestricted revenues goes to the P&S Club and to scholarship aid.

As future alumni, students play an important role in the work and deliberations of the Alumni Association. Through the Student-Alumni Relations Committee, students and alumni work together to address students' needs and concerns.

Information about the Alumni Association and its activities is available from the P&S Alumni Relations Office, 630 West 168th Street, New York, NY 10032; telephone: (212) 305-1472; fax: (212) 305-8293; e-mail: KC8@columbia.edu.

THE PROGRAM OF INSTRUCTION

The first-year curriculum is devoted largely to basic science courses with correlation clinics to demonstrate the application of scientific information to the practice of medicine. The first-year student also studies the impact of health care systems in our current society on the individual patient and physician. Second-year courses concentrate on the clinical relevance of basic science concepts as the bridging process to clinical instruction begins. Correlations between pathology and pathophysiology are emphasized. Throughout both preclinical years elective opportunities are available for pursuit of areas of interest.

The major clinical year is devoted exclusively to rotations on clerkships in the clinical disciplines. Under close supervision the students are helped to develop the skills and knowledge required for the practice of clinical medicine. Students learn to elicit a comprehensive history and to carry out a complete physical examination. They learn to develop professional relationships with patients, and they acquire an understanding of the mechanisms of disease and of the principles necessary for valid diagnostic appraisal and effective therapeutic plans.

All courses of the first three years of the curriculum are required of all students. In the fourth year, with the guidance of faculty advisors, students design individual elective curricula, drawn from a wide range of basic scientific electives, clinical electives, and research programs offered by the faculty. The elective courses of all departments are described in a catalog that is printed annually and distributed to students and faculty. Students are permitted to spend three months of the curriculum in elective programs offered by other medical schools. In addition, the School of Public Health offers international medicine programs that provide opportunities to study the organization and delivery of health services in many countries of the world.

During the elective curriculum students have available the resources of the entire University. Students are encouraged to utilize elective curriculum time to reach career decisions. Faculty advisors stress the acquisition of knowledge and skills in areas of medicine apart from he student's career discipline, and they encourage students to gain experience in clinical and/or laboratory research.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

GRADES, PROMOTIONS, AND LEAVES OF ABSENCE

All courses are rated on an Honors-Pass-Fail-system, and these ratings only are recorded on the official transcripts. Students are not ranked within the class. Faculty provide narrative descriptions of student performance in preclinical courses *(Psychiatric Medicine I and II)*, major clinical year clerkships, and elective programs. These evaluations become part of the student's permanent academic record in the Office of the Dean.

There are three standing faculty committees concerned with students' academic performances. These committees are: The First-Year Class Faculty, the Second-Year Class Faculty, and the Clinical Committee. The latter deals with academic performances in the major clinical year and the elective curriculum. The standing committees meet during each academic year to review student performances and to make decisions related to course failures and to promotions. Course failures in all years of the curriculum must be corrected according to the directives of the faculty committees. A student may be advanced to the next academic year of the medical school curriculum only upon recommendation of the faculty committee. In any year of the curriculum students may be dismissed for poor scholarship. Repetition of a year of the curriculum may be recommended by a faculty committee. The faculty committees may direct students whose performances are marginal to undertake additional work to correct deficiencies and strengthen overall performance in any discipline.

Students are informed in writing of the academic decisions of all faculty committees. Students have the right to appeal decisions of the faculty committees. A student who wishes to appeal may request the concerned committee to reverse or alter a decision. If the committee reaffirms the original decision, the student may direct an appeal to the Dean of the Faculty of Medicine, who may refer the appeal to the Executive Committee of the Faculty Council for final decision.

The Faculty of Medicine reserves the right to dismiss or to deny admission, registration, readmission, or graduation to any student who in the judgment of the Faculty of Medicine is determined to be unsuited for the study or practice of medicine.

Students in the College of Physicians and Surgeons are required to pass the United States Medical Licensing Exam (USMLE) Steps I and II prior to graduation.

Leaves of absence may be granted by the Dean for a limited period of time in exceptional circumstances only for health reasons or personal emergencies.

BASIC SCIENCE AND INTRODUCTORY CLINICAL COURSES OF THE FIRST AND SECOND YEARS

FIRST-YEAR COURSES

M5101. Science Basic to the Practice of Medicine
Drs. Marc L. Dickstein, Liza A. Pon, and interdepartmental associates.
Lectures, conferences, and laboratories integrating principles of biochemistry, molecular and cell biology, tissues, and systems biology.

Medicine M5101. Clinical Practice (CP) I
Drs. Katherine G. Nickerson, Eric R. Marcus, and associates.
Lectures, small groups, and interdisciplinary days highlighr common health problems of this era and introduce students to basic concepts in epidemiology, the patient-physician relationship, ethics, health care systems, nutrition, disease prevention, and health promotion.

Psychiatry M5101. Psychiatric medicine, I
Dr. Janis L. Cutler and departmental staff.
Lectures and seminars presenting the salient features of normal development.

Anatomy M5102. Human anatomy
Drs. Richard T. Ambron, Ernest W. April, and departmental staff.
Lectures, conferences, and laboratory encompassing basic morphological and functional human anatomy.

Anatomy-Physiology M5106. Neural science
Dr. Daniel J. Goldberg and associates.
Lectures, seminars, laboratories, and clinical demonstrations to provide an integrated understanding of neurophysiology, neuroanatomy, biochemistry, and behavior.

SECOND-YEAR COURSES

Medicine M6101. Clinical Practice (CP) II
Drs. Nickerson, Marcus, and associates.
CP II will build on the first-year curriculum and present more advanced topics in biostatistics and epidemiology, ethics and society, medical interviewing, and medical humanities. The overall goal is to prepare students for clinical decision-making by instructing them in the critical evaluation of the medical literature and its application to comprehensive clinical practice, attending to the human and social (as well as patho-physiologic) dimensions of medical care.

Pharmacology M6101. Pharmacology
Dr. Andrew L. Wit and members of the Department of Pharmacology and other participating departments.
This course participates in the combined pathophysiology lecture series for medical and dental students in the second year. This participation is intended to maximize integration of its course material with pathophysiology and pathology. The course emphasis is on the effects of drugs used for the therapy of disease, on normal and abnormal physiological systems. In the fall semester (September through December) the building blocks for understanding the actions and uses of therapeutic agents are taught followed by drugs used for infectious disease and disorders of the central nervous system. In the winter-spring semester (January through May) lectures are given on drugs used in the treatment of organ system diseases including cardiovascular, pulmonary, renal, endocrine, and oncological. At the end of the year a grade will be given in pharmacology.

Pathophysiology
Pathophysiology I and II enlist faculty from the Department of Medicine, Microbiology, and Pathology in a single integrated series of sections. This overall effort is directed by Dr. Thomas J. Garrett from the Department of Medicine, Dr. Young from the Department of Microbiology, Drs. Lefkowitch and Marcantonio from the Department of Pathology, and Dr. Despommier from the Division of Tropical Medicine in the School of Public Health.

Pathophysiology I
This course occupies the entire fall semester and is taught by faculty from the Departments of Medicine, Microbiology, and Pathology. The five sections are:
Cellular Pathophysiology—directed by Dr. Eugene Marcantonio
Immunology—directed by Dr. Leonard Chess
Basic Microbiology—directed by Drs. Alice Prince and Hamish Young
Parasitology—directed by Dr. Dickson Despommier
Infectious Disease Pathophysiology—directed by Drs. Alice Prince and Hamish Young

Pathophysiology II
This course, which runs the entire spring semester, is an integrated educational activity of faculty from the Departments of Medicine and Pathology. The seven sections are:
Cardiac Pathophysiology—directed by Dr. Ronald Drusin
Pulmonary Pathophysiology—directed by Dr. Neil Schluger
Renal Pathophysiology—directed by Dr. Qais Al-Awqati
Gastrointestinal Pathophysiology—directed by Dr. Michael Field
Neuropathology—directed by Dr. Yuan Chang
Endocrine Pathophysiology—directed by Dr. Thomas Jacobs
Oncologic Pathophysiology—directed by Dr. Thomas J. Garrett

Psychiatry M6102. Psychiatric medicine, II
Dr. Janis L. Cutler and departmental staff.
Lectures and seminars covering the major mental illnesses and the elements of patient interviewing.

Public Health M6104. Parasitic diseases
Dr. Dickson D. Despommier and associates.
Lectures and laboratories stressing parasitic diseases likely to be encountered and the techniques necessary for the diagnoses of these diseases.

Medicine M6106. Physical diagnoses
Dr. Carmen Ortiz-Neu and associates.
An intensive four-week clerkship during which the student learns to take a comprehensive medical history and perform a complete physical examination.

MAJOR CLINICAL YEAR

Anesthesiology M7201. Clinical clerkship in anesthesiology
Dr. Saundra Curry and staff at New York-Presbyterian Hospital.
A clerkship that provides training in preanesthetic evaluation, management, and postanesthetic care of surgical patients. At the conclusion of the clerkship students should be able to do the following: (1) describe the major factors to be considered in selecting anesthetic drugs and techniques for patients undergoing common surgical procedures; (2) describe indications for positive pressure ventilation of the lungs and how the adequacy of such ventilation can be determined; (3) differentiate between a patent and obstructed airway in a patient and demonstrate on a patient or mannequin his/her ability to obtain a patent airway by positioning; (4) describe the indications for use of an endotracheal tube; (5) describe procedures used for resuscitation of a patient who has had cardiac arrest and demonstrate on a mannequin his/her ability to perform mouth-to-mouth ventilation and closed chest cardiac massage; (6) describe medications for and contraindications to the use of local anesthetics to provide infiltration and nerve block anesthesia; and (7) describe the causes, preventions, diagnosis and treatment of local anesthetic drug toxicity.

Dermatology M7201. Clinical clerkship in dermatology
Dr. Garzon and staff.

Medicine M7201. Clinical clerkship in medicine
Dr. Glenda Garvey and staff at the Harlem, New York-Presbyterian, Roosevelt, and St. Luke's Hospitals.
Extended clinical experience under a preceptorship system at New York Presbyterian Hospital and at another affiliated hospital, Harlem, Roosevelt, or St. Luke' Hospital. At the conclusion of the clerkship the student should be capable of taking a precise medical history, performing an accurate physical examination, interpreting basic laboratory data, formulating a cogent problem list, and communicating these data in accurate verbal and written form. These skills will be acquired in the patient care setting in order to increase the student's understanding of the physiologic, psychologic, and social aspects of medicine and to prepare the student for the assumption of clinical responsibility under close supervision.

Neurology M7201. Clinical clerkship in neurology
Dr. Blair Ford and staff at the Neurological Institute of New York-Presbyterian Hospital.
A comprehensive experience in clinical neurology provided at the bedside at the Neurological Institute. Under close supervision of a junior and senior resident and an attending physician in neurology, students learn to obtain a systematic neurological history and to perform and interpret the

neurological examination. By active participation in the evaluation and care of patients, expertise is obtained in the diagnosis and treatment of common neurological diseases. Students learn how to do a lumbar puncture, and they become familiar with electrodiagnostic and neuroradiological tests. Experience is also obtained in neurosurgery and rehabilitation medicine. Management of neurological emergencies is learned during night call with the senior resident. In addition, a comprehensive core knowledge of clinical neurology is ensured by a course syllabus, daily rounds, and preceptor sessions with the attending physician.

Neurology M7202. Neurosurgery
Dr. James G. McMurtry III and staff at the Neurological Institute of New York-Presbyterian Hospital.
Included in *Neurology M7201.*

Obstetrics and Gynecology M7201. Clinical clerkship in obstetrics and gynecology
Dr. Eileen F. DeMarco and the staff at the Harlem, New York-Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in obstetrics and gynecology under close supervision of house staff and attendings. On the gynecological wards and in the clinics the students learn to take a sexual and gynecological history, to examine the breasts, abdomen, and pelvis, to distinguish normal and abnormal findings relative to gynecological disease, and to diagnose and manage benign and malignant gynecological tumors. The student acquires the skills needed to approach problems of sexuality and an understanding of the impact of changing physiological states in menarche and menopause. On the obstetrical service the students learn the medical and surgical complications encountered during pregnancy and delivery, and the student learns to diagnose and manage pregnancy. The student participates in the conduct of labor, the delivery, and the care of the newborn.

Ophthalmology M7201. Clinical clerkship in opbthalmology
Dr. Martin Leib and staff.

Orthopaedic Surgery M7201. Clinical clerkship in orthopaedic surgery.
Dr. Laura Forese and staff at New York-Presbyterian Hospital.
On the orthopedic surgery clerkship students learn to perform an orthopedic physical examination and to take an orthopedic history from the patient. The clerkship provides students with insight into the more common musculoskeletal problems (including fractures and trauma) and the basic approaches to management of these problems by an orthopedic surgeon. The student is expected to gain insight into how the discipline of orthopedic surgery works in conjunction with other specialties and how an orthopedic service provides in-patient and out-patient care.

Otolaryngology M7201. Clinical clerkship in otolaryngology
Dr. Jeffrey L. Keller and staff at New York-Presbyterian Hospital.
A clerkship designed to teach the skills of physical examination of the ear, nose, and throat and to provide an understanding of certain diseases where this examination is crucial in diagnosis and management. The clerkship includes selected didactic lectures, followed by a preceptor-type experience in the clinic where students examine and work up a number of patients under the direct supervision of a faculty member.

Pediatrics M7201. Clinical clerkship in pediatrics
Dr. Steven Z. Miller and staff at Children's, Harlem, Roosevelt, and St. Luke's Hospitals.
A clinical clerkship providing both in-patient and ambulatory care experience. The student is introduced to the study of infants and children: growth and development, diseases, and health care maintenance. The student develops basic skills in the following areas: taking the pediatric history from the parents and from the older child; performing the physical examination of the pediatric patient, including the young infant; observing, analyzing, and recording the interaction between parent and child; and ordering and interpreting laboratory tests. The student learns to integrate the data acquired and formulate an appropriate problem list and plan for the patient. The student also learns to make the basic measurements of physical, neurological, and psychosocial growth and development, and to plot and assess the data.

Interdepartmental M7201. Clinical clerkship in primary care
Drs. Matilde Irigoyen, Rebecca J. Kurth, and associates at various sites.
A clinical clerkship designed to educate students in the principles and practice of primary care. Students will be placed at clinical practice sites in urban, suburban, or rural areas affiliated with family medicine, internal medicine, or medicine/pediatrics programs. Students will learn to evaluate patients in the outpatient setting, how to assess and prioritize health issues, how to practice preventive medicine, and how to integrate patient education into daily clinical practice.

Psychiatry M7201. Clinical clerkship in psychiatry
Dr. Janis L. Cutler and staff at the New York State Psychiatric Institute, Harlem, New York-Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in psychiatry. In active participation in patient care under faculty supervision the student is expected to learn to conduct a psychiatric history and mental status examination and to develop refined interviewing skills, noting verbal and non-verbal behavior. The student learns to make a psychiatric differential diagnosis, to use psychotropic drugs effectively, to evaluate suicide potential, and to develop and enhance therapeutic rapport. The clerkship aims to provide an appreciation of the effects of psychological, social, and biological phenomena on illness-related behaviors.

Radiology M7201. Diagnostic radiology (medical)
Dr. Philip O. Alderson and staff.

Radiology M7202. Diagnostic radiology (surgical)
Dr. Alderson and staff.

Rehabilitation Medicine M7201. Clinical rehabilitation medicine
Dr. James S. Lieberman and the staff at the Neurological Institute of New York-Presbyterian Hospital.

Surgery M7201. Clinical clerkship in surgery
Dr. Mark A. Hardy and staff at New York-Presbyterian Hospital.
A comprehensive clinical clerkship during which the student is expected to demonstrate improvement in ability to perform histories and physical examinations on surgical patients and to formulate rational diagnostic and therapeutic plans. The student is expected to demonstrate increasing skill and competence in performing selected procedures, in assuming supervised responsibility for patient care, in communicating succinctly and with clarity to patients and colleagues, and in building a functional body of critically examined information regarding common surgical entities.

Surgery M7202. Lectures and demonstrations in surgical pathology
Dr. Mark A. Hardy and staff; Dr. Perzin and staff.
As part of the surgical clerkship *(Surgery M7201)*, these three one-and-a-half hour sessions per week describe various selected problems in surgical pathology. The didactic lectures are presented by the surgical "academic senior resident" (PGY5). This resident presents the clinical aspects of various surgical diseases and is assisted by a surgical pathology senior resident, who demonstrates gross specimens and microscopic slides appropriate to the topics and patients being discussed.

Urology M7201. Clinical clerkship in urology
Dr. Peter Puchner and staff.
During the clinical clerkship in urology students learn to identify common disorders of the genitourinary tract through precise patient interviews and examinations. Both ambulatory and in-patients are evaluated. By knowing diagnostic methods unique to urology, students are able to formulate appropriate diagnostic and therapeutic plans.

FOURTH YEAR

The fourth-year elective courses are described in a catalog distributed annually to students and faculty. Each student is required to choose an elective in "back to basic" science.

SPECIAL PROGRAMS

PH.D. PROGRAMS

Under the aegis of the Graduate School of Arts and Sciences of Columbia University, Ph.D. programs are offered in the basic science departments at the College of Physicians and Surgeons. All students admitted in this program are provided full tuition, health insurance, and a stipend for personal expenses.

For application and information contact the Associate Dean, Office of Graduate Affairs, 701 West 168th Street, Room 406, New York, NY 10032, telephone (212) 305-8058, fax (212) 305-1031. E-mail: gsasatpands@columbia.edu; Web site: http://cpmcnet.columbia.edu/dept/gsas/.

M.D.-PH.D. PROGRAM

The Columbia University M.D.-Ph.D. program, a joint endeavor of the Graduate School of Art and Sciences and the Faculty of Medicine (College of Physicians & Surgeons) was established in to train physician-scientists for academic careers in biomedical research and teaching. Students earn the Ph.D. degree by fulfilling the rigorous requirements of the Graduate School of Arts and Sciences and they earn the M.D. degree in a medical curriculum, which emphasizes both depth in the basic sciences and a comprehensive grounding in the clinical sciences.

Generally, entering trainees first complete the basic science courses of the medical school curriculum. In this period they are helped to develop perspectives in science and to explore various training laboratories by basic science research seminars, clinical research orientation seminars, summer research projects, and counseling and guidance by an experienced faculty Advisory Committee. Upon entering a graduate program, the trainee takes additional graduate courses, undertakes an original investigation, and fulfills all requirements for the Ph.D. degree of the Graduate School of Arts and Sciences. In the graduate training period the student can maintain contact with clinical activities through special exercises (rounds, tutorials, practical sessions) and the advice and guidance of clinical clerkship period and electives. Graduates of the double-degree program are highly qualified for careers in academic medicine and biomedical research.

The all-University program comprises departments of both the Health Sciences and Morningside campuses, including Anatomy & Cell Biology, Biochemistry & Molecular Biophysics, Biomedical Engineering, Biological Sciences, Chemistry, Genetics & Development, Medical Informatics, Microbiology, Nutrition, Pathology, Pharmacology, and Physiology & Cellular Biophysics.

The MD-PhD Program director is Michael L. Shelanski, M.D., Ph.D.

For further information about the program, access the program's website at: http://t1.berlinprod.com/accounts/columbia/columbia-site8/ddp/mdphd.htm.

For additional inquiries, students may also write to Ms. Stacy Warren, MD-PhD Program Coordinator, College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032, or email questions to MD-PhD@columbia.edu.

To apply, students may access an application form on-line at https://apply.embark.com//Med/Columbia/PS/67/.

DUAL M.D.-M.P.H. (MASTER OF PUBLIC HEALTH) PROGRAM

This dual degree program is under the joint direction of the College of Physicians and Surgeons and the School of Public Health. In addition to preclinical and clinical medical training, students gain substantive knowledge of the methods and content needed to protect and improve health of populations and communities. Methods available include those of health policy and management, epidemiology, biostatistics, and the sociomedical sciences. Students choose from content areas that include health care delivery and financial problems of the environment, disease prevention and health promotion, maternal and child health, and international health. Graduates of the dual program are prepared for careers that combine clinical practice with research and/or administration in public or private sector health care delivery and community health improvement.

Before being considered for admission to the dual degree program, the applicant must be accepted by the College of Physicians and Surgeons. Formal application to the School of Public Health should be made shortly after acceptance to P&S or during the first year of medical school but can be made later in the medical curriculum. Registration and scheduling patterns, and the overall length of the dual program, vary among individual students. The M.D. and M.P.H. degrees usually are awarded simultaneously at the end of the fourth year, but the degrees may be awarded separately if a longer time is needed to meet one set of requirements. Dual degree students may take a few public health courses in the evenings and during the first and second years of medical school and register for a larger number of courses and/or fieldwork tutorials in summers after the first year and during the fourth year, along with required and elective clinical rotations.

For further information, contact Linda Lewis, M.D., Associate Dean for Student Affairs in the College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032 (212) 305-3806; or Susan Cohen, M.P.H., 600 West 168th Street, New York, NY 10032, (212) 305-5152; or Victor Grann, M.D., M.P.H., (212) 305-9529.

THE MACY SCHOLARS M.P.H.-M.D. PROGRAM

There is also a scholarship M.D./M.P.H. program, funded by the Macy Foundation, for a limited number of medical students. Students completing the third year of medical school are eligible to apply for the program and scholarship. Recipients receive full funding for the M.P.H. and spend one year on leave from the medical school, following the third year, in full time study in the School of Public Health. For further information on the Macy Scholarship contact Susan Cohen, M.P.H., Director of

Academic Programs, Division of Health Policy and Management, School of Public Health, 600 W. 168th St., New York, NY.

INTEGRATED M.D.-ORAL AND MAXILLOFACIAL SURGERY PROGRAM

This program is a cooperative effort of the College of Physicians and Surgeons, the School of Dental and Oral Surgery, and New York-Presbyterian Hospital. It has been designed to train specialists equipped to handle the expanded scope of maxillofacial surgical practice and to provide academic, research, and clinical leadership in this area. The program combines study for the M.D. degree at the College of Physicians and Surgeons with residency training in oral and maxillofacial surgery and general surgery at New York-Presbyterian Hospital. Candidates must be accepted for admission to both the College of Physician and Surgeons and the residency training program in oral and maxillofacial surgery. Interested candidates should request further information from Dr. Steven M. Roser, Division of Oral and Maxillofacial Surgery, School of Dental and Oral Surgery, 630 West 168th Street, New York, NY 10032.

PROGRAMS IN OCCUPATIONAL THERAPY

The Programs in Occupational Therapy offer an entry-level M.S. degree, a postprofessional M.S. degree, and the first joint M.S.-M.P.H. degree (with the School of Public Health) in the country. The programs provide students with a strong foundation in the major treatment areas and prepares them for work with all age groups in a variety of institutional, community, and private practice settings. Graduates of the programs have distinguished themselves as leaders in the profession, working as master clinicians, educators, researchers, administrators, and consultants. The structure of each program allows for multidisciplinary learning and practicum experiences with close faculty-students interaction. Specializations in education, administration, pediatrics, and gerontology/geriatrics are available at the advanced level.

PROGRAM IN PHYSICAL THERAPY

Columbia offers an entry-level Master of Science Physical Therapy Program. The goal of the curriculum is to prepare graduates who are self-directed generalists with clinical problem-solving skills. The program provides a comprehensive foundation of basic principles in the art and science of physical therapy. Graduates are prepared to develop specialty skills, contribute to the leadership and growth of physical therapy, and advance the quality of health care through clinical research and collaboration with other professionals. The Master of Science degree is awarded upon completion of academic study, research, and clinical experience. Students complete an independent faculty-directed research project culminating in a master's thesis. The program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association and is registered by the Department of Education of the State of New York.

PROGRAM OF THE CENTER FOR PSYCHOANALYTIC TRAINING AND RESEARCH

A course of training in the theory and practice of psychoanalysis is offered through the Center for Psychoanalytic Training and Research of the Department of Psychiatry. Full clinical training is offered for clinical psychologists and psychiatrists. Partial training is offered for academic scholars with non-clinical backgrounds. The program, a minimum of four years in length, leads to the award of a certificate in psychoanalysis for those accepted for full training. Training in child analysis is also available. For details, see bulletin of the center.

PROGRAMS IN NUTRITION

The Master of Science program, administered by the Postgraduate Division of the Faculty of Medicine, is a 12-month program that serves as a foundation for students who plan to continue for the Doctor of Philosophy degree or to attend a professional school in the health sciences. In addition, the master's program is offered to physicians and other health specialists who wish to augment their training with knowledge of nutrition. The M.S. degree for physicians and health professionals has been designed to accommodate their academic and scheduling needs. The M.S. degree can be completed on a full- or part-time basis.

Requirement for admission: a bachelor's degree from an accredited college, with a strong emphasis on the sciences, including two years of chemistry, one year of biology, and a course in elementary biochemistry. The Graduate Record Examination is required.

The Doctor of Philosophy program in nutrition is under the jurisdiction of the Executive Committee of the Graduate School of Arts and Sciences. Course work and thesis research leading to the Ph.D. are carried out under the guidance of the Doctoral Subcommittee in Nutrition. The Ph.D. program is designed to train individuals who are interested in pursuing a career in research and teaching in the field of nutrition. The primary goal of the Ph.D. program is to provide thesis training in the nutritional sciences, although some limited opportunities for research in the fields of clinical and public health nutrition are available.

Requirements for admission to the Ph.D. program: very highly qualified and motivated students who have demonstrated scholarly ability for pursuing advanced studies and research, with undergraduate degrees in nutrition, biochemistry, biology, chemistry, or related basic science programs will be considered for direct admission into the Ph.D. program. Directly admitted students who lack formal training in nutrition are expected to fill deficiencies in their course work through course offering from the Master of Science degree program outlined above. Others who have successfully completed the Master of Science program, or its equivalent, and who have demonstrated ability and aptitude for pursuing advanced studies and research also will be considered for admission. All students must fulfill the specific degree requirements set by the Doctoral Subcommittee in Nutrition and the general degree requirements that govern all Ph.D. candidates in the University. The Graduate Record Examination is required of all applicants.

Postdoctoral training in nutrition is offered for qualified individuals holding the degree of Doctor of Medicine, Doctor of Philosophy, or other doctorates in the health professions (dentistry, nursing, optometry, public health). The postdoctoral training is intended for individuals who are pursuing careers in teaching and research in nutrition, with a special emphasis in the modern nutritional sciences. Research projects, selected nutrition courses, seminars, and participation in clinics are offered to qualified individuals. This program has considerable flexibility and is arranged with the individual and his/her preceptor to suit his or her particular goals and needs.

MEDICAL INFORMATICS

Medical informatics is the scientific field that deals with biomedical information, data, and knowledge—their storage, retrieval, and optimal use for problem solving and decision making. It accordingly touches on all basic and applied fields in biomedical science and is closely tied to modern information technologies, notably in the areas of computing and communication. The emergence of medical informatics as a new discipline is due in large part to rapid advances in computing and communications technology, to an increasing awareness that the knowledge base of biomedicine is essentially unmanageable by traditional paper-based

methods, and to a growing conviction that the process of informed decision making is as important to modern biomedicine as is the collection of facts on which clinical decisions or research plans are made.

The Department of Medical Informatics is dedicated to achieving the finest basic and applied work in medical informatics and excellent educational programs in the field. Its faculty's work includes the development and evaluation of innovative information technologies for a variety of biomedical purposes: improving health care in clinical settings and in patient homes; facilitating new discoveries and the interpretation of complex data being generated in the basic biomedical sciences, with an emphasis on molecular biology and genomics; enhancing the quality of imaging modalities, including the generation and use of virtual environments; and improving understanding of public health and the ways in which new knowledge can be derived from information regarding populations of patients.

The background of the department reflects its commitment to applied clinical systems and educational programs, with more recent emphases in the areas of bioinformatics and imaging. The department currently has 28 faculty members (14 core faculty and 14 participating faculty from other departments) with backgrounds in computer science, the health professions (medicine, nursing, and dentistry), library science, biological sciences (including bioinformatics), cognitive science, and medical psychology. The research environment benefits from the multidisciplinary character of the faculty and supports much fruitful collaboration with faculty in clinical disciplines, molecular biology, computer science, genomics, bioinformatics, and biostatistics. The department offers a federally funded training program for postdoctoral fellows and graduate program leading to Ph.D. and M.A. degrees in Medical Informatics.

The Department pursues research in several areas:

1.Clinical Data Augmentation explores methods for transforming raw clinical data into information, knowledge and action. An example of this research is "mining" clinical data to discover new medical knowledge. Knowledge discovery techniques can be employed to assess patient outcome and to study interactions between genes and environmental factor. A large amount of clinical information is currently collected as narrative text from transcription and speech recognition software. The department has pioneered research in natural language processing to extract clinical information from clinical reports to enable further processing and analysis.

2. Enhanced Health Care Communication and Coordination creates information distribution and visualization techniques to improve communication and data management among health care providers and between providers and patients. Among the most important of these efforts is the development of a web-based electronic medical record that enables clinicians to access a wide range of information about their patients. This technology had been extended to patient homes for asthma monitoring and diabetes care management. Specialized uses include a multimedia workstation for mammography, and new methods for visualizing information from monitors in intensive care.

3.Multimedia Health Education develops new methods of concept organization and visual presentation to educate health care providers and patients. Efforts in this area include the development of a concept-based medical curriculum in collaboration with the medical school, and a system for chair-side training in the dental school. New ground is being pursued in patient education using the web-based medical record.

4. Decision Making and Cognition explores a variety of issues related to the ways in which clinicians, patients, and the lay public make decisions about health, disease, and treatment. Activities in this area range from formal studies of human beings as they solve medically related problems to analysis of human-computer interaction and the role of technology in enabling decision making. Building on the lessons from such work is the development of computer-based clinical decision support tools, and especially those that require integration with clinical systems and direct interaction between clinicians and information technology. Implications for education and training are also a major emphasis of this work.

5. Bioinformatics and Computational Biology studies the role of computation in solving fundamental problems in molecular biology and genomics. Our bioinformatics faculty use computational and theoretical methods to study the structure and function of biological molecules and cellular structures.

6. Imaging Informatics develops novel methods for the capture, analysis and presentation of biomedical images. This research couples the biological science with the fundamental principles from applied mathematics, electrical engineering, and computer science.

ENDOWED LECTURESHIPS AND VISITING PROFESSORSHIPS

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and visiting professorships:

The *Cartwright Lectureship* was established in the late 1870s through a bequest by Benjamin A. Cartwright to the Alumni Association of P&S to organize a course of lectures modeled after the Lettsonian or Croonian Lectures of England. These were highly anticipated formal occasions known for furnishing important summaries of existing knowledge or reports of investigations in medicine or surgery.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A. M. Fisher's half-brother, E. Douglas Southwick, to make possible lectures on the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *Samuel Rudin Distinguished Visiting Professorship* was established by a grant from the Samuel and May Rudin Foundation. As Samuel Rudin Visiting Professors, scholars from other institutions participate in formal lectures, small informal seminars, and individual sessions with students in medicine, dentistry, public health, nursing, and other health profession programs. The goal is to enlarge and enrich student and faculty perspectives and to build bridges from Columbia to the greater New York community and other academic institutions.

The *Ludwig Schaefer Visiting Professorship* was established by the bequest of the late Ludwig Schaefer to encourage and promote research work in the sciences of human physiology. It provides for the appointment of a visiting professor for six months, from parts of the world other than North and South America.

The *David Seegal Lectureship and Visiting Professorship Fund*, given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

PRIZES AND AWARDS

The *Distinguished Service Awards* of the College of Physicians and Surgeons are given annually at commencement exercises to two members of the faculty for outstanding contributions to medicine.

The *Arnold P. Gold Foundation Award* is given to a physician who has demonstrated compassionate and devoted patient care and who has served as a humanistic role model for students and young physicians.

The *Louisa Gross Horwitz Prize*, the recipient of which traditionally

gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Charles W. Bohmfalk Memorial Prizes for Distinguished Contributions to Teaching in the Preclinical Sciences and for Teaching in the Clinical Sciences* were established in memory of a graduate of the class of 1883 and are given to faculty for significant contributions to educational programs of the College.

The *Dr. Harold and Golden Lamport Research Awards* were initiated in 1983 to recognize outstanding young researchers in basic science and in clinical science.

The *Joseph Mather Smith Prize* is awarded to the graduate of the College whose original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, whose original research on any medical subject is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Dean's Award for Excellence in Research* is awarded to the graduating Ph.D. student, selected by a joint faculty and student committee, whose thesis research was most original and distinguished.

The *Dean's Distinguished Lectureships* honor individuals who have made outstanding contributions in their fields. The lecture series is intended to enrich the traditional scholarly exchange between the health sciences faculties, other branches of Columbia University, and the medical community of the New York metropolitan area.

POSTGRADUATE PROGRAMS

POSTGRADUATE COURSES FOR PRACTICING PHYSICIANS

A variety of courses is offered to help practicing physicians keep abreast of new knowledge in diagnosis, treatment, and prevention of diseases. A variety of educational formats is used, depending on the objectives of the course. No University credit or certificates are granted for these courses, but Continuing Medical Education credit is granted toward the Physician Recognition Award of the American Medical Association.

These courses are opportunities for health care practitioners to learn about the latest methods of diagnosis, treatment, and prevention. The instruction consists largely of lectures, demonstrations, discussions, and hands-on opportunities.

For physicians already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the necessary preparation to enable them to benefit from advanced instruction.

COLLEGE OF PHYSICIANS AND SURGEONS
SCHOOL OF MEDICINE COLUMBIA UNIVERSITY
A.D. 1767

DEPARTMENTS OF INSTRUCTION

Listed are faculty appointments as of June 28, 2001.

> The designation "also" indicates that the faculty member holds appointments in two departments. The designation "in" is used when an individual holds an appointment in the department where listed, with assignment to the department named after the "in."

ANATOMY AND CELL BIOLOGY

PROFESSOR AND CHAIRMAN

Michael D. Gershon (in the Center for Neurobiology & Behavior). *B.A., Cornell, 1958; M.D., 1963*

AT COLUMBIA-PRESBYTERIAN MEDICAL CENTER

PROFESSORS

Richard T. Ambron. *B.S., Villanova, 1965; Ph.D., Temple, 1971*

Anthony Bellve (in Urology and the Center for Reproductive Sciences). *B.Ag.Sc., Massey (New Zealand), 1964; M.Ag.Sc., 1967; Ph.D., North Carolina State, 1970*

Jeannette C. Bulinski (also Pathology and Biological Sciences). *B.A., Colorado, 1973; Ph.D., Wisconsin, 1980*

Richard H. Kessin. *B.A., Yale, 1966; Ph.D., Brandeis, 1971*

Ronald K. H. Liem (also Pathology) (in the Center for Neurobiology & Behavior). *B.A., Amherst, 1967; M.S., Cornell, 1969; Ph.D., 1973*

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ADJUNCT PROFESSOR

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PROFESSOR OF DENTAL & ORAL SURGERY

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SPECIAL LECTURERS

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Melvin L. Moss, Ph.D.

Eladio A. Nunez, Ph.D.

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ANESTHESIOLOGY

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Dean W. Martin. *B.S., Yale, 1988; M.D., Harvard, 1993*

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ASSISTANT PROFESSOR OF ANESTHESIOLOGICAL SCIENCE

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ASSISTANT PROFESSORS OF CLINICAL ANESTHESIOLOGY

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Christopher D. Breder. *B.S., American University (Washington), 1985; Ph.D., University of Chicago, 1992; M.D., 1994*

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ASSISTANT PROFESSOR OF CLINICAL COMPARATIVE ANESTHESIOLOGY

Sulli J. Popilskis (in the Institute of Comparative Medicine). *D.V.M., Lithuanian Veterinary Academy, 1983*

ASSISTANT CLINICAL PROFESSOR OF MEDICAL PSYCHOLOGY

Nomita Sonty (in Psychiatry). *M.A., SIET Women's College (Madras, India), 1980; Ph.D., National Institute of Mental Health and Neurosciences (Bangalore, India), 1989*

SPECIAL LECTURERS

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Vance R. Lauderdale Jr., M.D.

SPECIAL RESEARCH SCIENTIST

Salha S. Daniel, Ph.D.

INSTRUCTORS

Philip C. Devine, M.D.

Bessie Kachulis, M.D.

Jalin Sama, M.D.

AT MARY IMOGENE BASSETT HOSPITAL

ASSISTANT CLINICAL PROFESSORS

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Peter J. Gencarelli. *B.A., Rochester, 1973; M.D., State University of New York (Syracuse), 1977*

Jonathan A. Greenberg. *M.D., Dartmouth, 1988*

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AT HARLEM HOSPITAL CENTER

CLINICAL PROFESSOR

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ASSISTANT CLINICAL PROFESSORS

Young In Choi. *M.D., Ewha Woman's University (Seoul), 1975*

Vanessa T. Clarke. *B.A., Colorado Women College, 1975; M.D., State University of New York (Downstate), 1989*

Jacques Dole. *M.D., Medical School of Port-au-Prince (Haiti), 1972*

Moe M. Myint. *M.B., B.S., Institute of Medicine I, (Rangoon, Burma), 1970*

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Elizabeth A. Catalano. *M.D., Missouri, 1994*

Fazeela Ferouz. *B.S., Maryland, 1987; M.D., 1991*

Ennio Gallozzi. *M.D., Rome, 1953*

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Ronny Hertz. *B.S., City College of New York, 1969; D.D.S., Northwestern, 1973; M.D., State University of New York (Upstate), 1978*

Steven M. Lasker. *B.S., Illinois, 1981; M.D., 1985*

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INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Mark H. Bernhardt, M.D.

Gerard T. De Jesus, M.D.

Mikhail Dvorochkin, M.D.

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BIOCHEMISTRY AND MOLECULAR BIOPHYSICS

ROBERT WOOD JOHNSON, JR. PROFESSOR AND CHAIRMAN

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Maxwell Gottesman (Charles H. Revson Professor) (also Microbiology) (in the Institute of Cancer Research). *M.D., Yale, 1960; Ph.D., 1965*

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Thomas Jessell (in the Center for Neurobiology & Behavior). *B.Pharm., London, 1973; Ph.D., Cambridge, 1974*

Eric Kandel (University Professor) (also Psychiatry and Physiology & Cellular Biophysics) (in the Center for Neurobiology & Behavior). *B.A., Harvard, 1952; M.D., New York University, 1956*

Arthur Karlin (Eugene Higgins Professor of Neurology) (also Neurology and Physiology & Cellular Biophysics). *B.A., Swarthmore, 1957; Ph.D., Rockefeller, 1962*

Alvin I. Krasna. *B.A., Yeshiva, 1950; Ph.D., Columbia, 1955*

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ASSOCIATE PROFESSOR

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ASSISTANT PROFESSORS

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SPECIAL LECTURERS

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Isidore S. Edelman, Ph.D.

Max A. Eisenberg, Ph.D.

Barbara W. Low, D.Phil.

Maurice M. Rapport, Ph.D.

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DERMATOLOGY

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Van C. Mow (Stanley Dicker Professor)(also Biomedical Engineering). *B.A.E., Rensselaer Polytechnic Institute, 1962; Ph.D., 1966*

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Yosef P. Krespi. *M.D., Technion-Faculty of Medicine (Israel), 1973*

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ASSISTANT PROFESSOR

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PATHOLOGY

FRANCIS E. DELAFIELD PROFESSOR AND CHAIRMAN

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Leonard Chess (also Medicine). *B.S., Massachusetts Institute of Technology, 1964; M.D., State University of New York (Downstate), 1968*
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Jeffrey J. Arliss. *B.S., Vermont, 1978; B.A., 1979; M.D., Columbia, 1983*
Alain S. Asher. *B.A., New York University, 1972; M.D., Paris (France), 1981*
Vibhakar K. Baxi. *M.B., B.S., Bombay (India), 1969*
Kerry Scott Bergman. *B.S., Rensselear Polytechnic Institute, 1982; M.D., Albany Medical College, 1982*
Barry C. Esrig. *B.S., Syracuse, 1967; M.D., Albert Einstein, 1971*
Paul H. Gerst. *B.A., Columbia, 1948; M.D., 1952*
Mark E. Ginsburg. *B.A., Amherst, 1976; M.D., Tufts, 1980*
Lyall A. Gorenstein. *B.S., Toronto (Canada), 1979; M.D., 1983*
Leif O. Holgersen. *B.A., Taylor (Indiana), 1960; M.D., College of Medicine and Dentistry of New Jersey, 1965*
Ayad K. Jihayel. *M.D., Bagdad (Iraq), 1975*
Edmund Kessler. *M.B.Ch., Witwatersrand (Johannesburg, South Africa), 1968*
Jeffrey LeBenger. *B.A., Brandeis, 1979; M.D., New York Medical College, 1984*
Marc S. Mandel. *B.A., Brandeis, 1980; M.S., Georgetown, 1981; M.D., Albert Einstein, 1985*
Werner Roeder. *B.S., St. Johns, 1961; M.D., New York Medical College, 1965*
Pierre G. Van Bockstaele. *B.S., Paris (France), 1945; M.D., 1954*
Jeffrey L. Zitsman. *M.D., Tufts, 1976*

ASSOCIATE RESEARCH SCIENTISTS

Silviu Itescu. *M.B., B.S., Monash (Melbourne, Australia), 1981*
Ningsheng Ma. *M.D., Wuhan Medical College (China), 1983*
Shanta M. Modak. *Ph.D., Haffkine Institute (Bombay), 1969*
Shaheen M. Nakeeb. *B.S., Baghdad (Iraq), 1962; M.S., Iowa State, 1969; Ph.D., 1969*
Catherine Y. Wang. *M.D., Dalian (Liaoning Province, China), 1985*

SPECIAL LECTURERS

Harold G. Barker, M.D.
Joseph A. Buda, M.D.
Frank E. Gump, M.D.
Thomas C. King, M.D.
John N. Schullinger, M.D.
Philip D. Wiedel, M.D.

LECTURERS

A. Douglas Heymann, M.D.
Ronald N. Ollstein, M.D.
David C. Paik, M.D.
Norman Sas, M.D.
Edward Shumofsky, M.D.

INSTRUCTORS

Robert C. Ashton, M.D.
James A. Burks, M.D.
Joseph P. Ha, M.D.
John C. Lantis, M.D.

INSTRUCTORS IN CLINICAL SURGERY

Michael Argenziano, M.D.
Luis Arrazola, M.D.
Vivek Rao, M.D., Ph.D.
Salomon Rivera, M.D.
Michael H. Rosenberg, M.D.
Mark David Sherman, M.D.

AT MARY IMOGENE BASSETT HOSPITAL

CLINICAL PROFESSOR

Michael S. Gold. *B.S., Miami, 1961; M.D., 1965*

ASSOCIATE PROFESSOR OF CLINICAL SURGERY

Marek Rudnicki. *M.D., Silesian (Katowice, Poland), 1972; Ph.D., 1980*

ASSOCIATE CLINICAL PROFESSOR

Patrick Allen Dietz. *B.A., Holy Cross, 1966; B.M.S., Dartmouth, 1968; M.D., Harvard, 1970*

ASSISTANT PROFESSOR OF CLINICAL SURGERY

James Bordley, IV. *B.A, Yale, 1965; M.D., Columbia, 1970*

ASSISTANT CLINICAL PROFESSORS

Steven J. Heneghan. *B.S., United States Merchant Marine Academy, 1980; M.D., New York University, 1986*

W. Thomas Huntsman. *B.A., Wake Forest, 1979; M.D., Bowman Gray, 1983*
Robert M. Moglia. *M.D., State University of New York (Downstate), 1982*
M. Bernadette Ryan. *B.S., Indiana, 1975; M.D., Indiana State, 1979*

AT HARLEM HOSPITAL CENTER

PROFESSOR

Soji Oluwole. *B.S., Ibadan, 1967; M.B., B.S., 1970*

PROFESSORS OF CLINICAL SURGERY

Barbara Barlow. *B.A., Vassar, 1960; M.A., Columbia, 1963; Ph.D., 1964; M.D., Albert Einstein, 1967*
Mohamad H. Parsa. *B.S., Tehran, 1957; M.D., 1963*

CLINICAL PROFESSOR

Ferdinand A. Ofodile. *B.S., Northwestern, 1964; M.D., 1968*

ASSOCIATE PROFESSOR OF CLINICAL SURGERY

Arthur Cooper (in the Institute of Human Nutrition). *B.A., Harvard, 1971; M.D., Pennsylvania, 1975*

ASSISTANT PROFESSORS OF CLINICAL SURGERY

Monqidh M. Al-Sawwaf. *M.D., Pahlavi, 1976*
David L. Friedman. *B.A., Rutgers, 1966; M.S., 1967; M.D., State University of New York (Downstate), 1971*
Ganepola A. Ganepola. *B.S., Kyoto, 1966; M.D., 1967*
Sitaram Pillarisetty. *M.D., Andhra (India), 1969*

ASSISTANT CLINICAL PROFESSORS

Albert K. Adu. *M.D., University of Ghana, 1974*
Deodatta V. Bendre. *M.S., Bombay (India), 1968*
Brian A. Donaldson. *M.B., B.S., West Indies (Jamaica), 1984*
Egel Francois. *M.D., State University (Port-au-Prince, Haiti), 1955*
Rajunder P. Gandhi. *M.B., B.S., Institute of Medicine (Mandalay), 1966*
Norman G. Morrison. *M.B., B.S., West Indies, 1980*
Ali Safavi. *B.S., Southern California, 1977; M.D., 1981*

SPECIAL LECTURERS

Robert F. Morton, M.D.
Bashir A. Zikria, M.D.

LECTURER

Narayan Sundaresan, M.D.

AT STAMFORD HOSPITAL

ASSOCIATE PROFESSOR OF CLINICAL SURGERY

James E. Barone. *B.A., West Virginia, 1967; M.D., Thomas Jefferson, 1971*

ASSISTANT CLINICAL PROFESSOR OF SURGERY

Robert G. Blabey. *B.A., Hamilton, 1963; M.D., Columbia, 1967*
Sherman M. Bull. *B.A., Yale, 1958; M.D., Columbia, 1962*
Harold S. Gewirtz. *B.A., Pennsylvania, 1971; M.D., Johns Hopkins, 1975*
Robert M. Lincer. *B.A.,M.D., Boston, 1981*
Charles E. Littlejohn. *B.A., Dartmouth, 1974; M.D., 1978*
David M. Reed. *B.S., M.S., Tufts, 1972; M.D., Thomas Jefferson, 1978*
Chan-Kook Rha. *M.D., National (Seoul, Korea), 1964*
Arthur R. Rosenstock. *B.S., Maryland, 1969; M.D., Free University of Bruxelles (Belgium), 1976*
Harvey P. Rubin. *B.A., Connecticut, 1954; M.D., Vermont, 1958*
Douglas R. Smego. *B.S., Notre Dame, 1973; M.D., University of Medicine and Dentistry of New Jersey, 1977*
Tyr O. Wilbanks. *B.A., California (Berkeley), 1979; M.D., Cornell, 1983*

INSTRUCTORS IN CLINICAL SURGERY

Philip R. Corvo, M.D.
Sandra L. Margoles, M.D.
Jennifer O. Pogue, M.D.

AT ST. LUKE'S-ROOSEVELT HOSPITAL CENTER

PROFESSORS

Constantine E. Anagnostopoulos. *B.A., Georgetown, 1959; M.D., 1963; D.Sc., Athens, 1967*
M. D. Tilson (Ailsa Mellon Bruce Professor). *B.A., Rier, 1963; M.D., Yale, 1967*

PROFESSORS OF CLINICAL SURGERY

Alison Estabrook. *B.A., Barnard, 1974; M.D., New York University, 1978*
George J. Todd. *B.S., Iona, 1970; M.D., Pennsylvania State, 1974*

CLINICAL PROFESSOR

Thomas Dailey. *B.A., Princeton, 1957; M.D., Cornell, 1961*

ASSOCIATE PROFESSORS OF CLINICAL SURGERY

Stephan G. Lynn. (also Medicine) *B.A., Swarthmore, 1969; M.D., Columbia, 1973*
Paul I. Tartter. *B.S., Brown, 1973; M.D., 1977*

ASSOCIATE CLINICAL PROFESSORS

Fadi F. Attiyeh. *B.S., American University of Beirut, 1965; M.D., 1969*
Gary Giangola. *B.A., New York University, 1976; M.D., 1980*
Richard A. Marks. *B.A., Harvard, 1965; M.D., 1968*
Robert E. Miller. *B.A., New York University, 1953; M.D., State University of New York (Downstate), 1957*
Howard R. Nay. *B.A., Virginia Military Institute, 1952; M.D., Columbia, 1956*
James B. Rodgers. *B.A., Virginia, 1944; M.D., 1948*
Mark R. Sultan. *B.A., Brandeis, 1978; M.D., Columbia, 1982*

ASSISTANT PROFESSORS OF CLINICAL SURGERY

Cliff P. Connery. *B.S., William and Mary, 1980; M.D., Eastern Virginia, 1984*
William G. Ramey. *B.A., Virginia, 1970; M.D., 1973*

ASSISTANT CLINICAL PROFESSORS

Darrick E. Antell. *B.S., Hobart, 1973; D.D.S., Case Western Reserve, 1978; M.D., Ohio, 1982*
Arnold H. Belgraier. *B.A., Boston, 1967; M.D., Columbia, 1971*
Mitchell A. Bernstein. *B.S., Michigan, 1983; M.D., Miami, 1989*
Peter A. Bossart. *B.A., Muhlenberg, 1947; M.D., Cornell, 1951*
Peter B. Cinelli. *B.A., Holy Cross, 1960; M.D., Johns Hopkins, 1964*
Michael Kalisman. *M.D., Hebrew (Hadassah), 1973*
Richard H. Karpinski. *M.D., Harvard, 1971*
Fred M. Kimmelstiel. *B.A., Queens (New York), 1974; M.D., New York Medical College, 1980*
James A. MacDonald. *B.A., Princeton, 1948; M.D., Columbia, 1950*
Donna Maria Mendes. *B.A., Hofstra, 1973; M.D., Columbia, 1977*
Eric D. Moore. *B.A., Harvard, 1969; M.D., Columbia, 1975*

Robert J. Mulcare. *B.A., Princeton, 1957; M.D., Columbia, 1961*
Edward W. Powers. *M.S., Fordham, 1964; M.D., State University of New York (Downstate), 1968*
Alexander J. Swistel. *B.A., Harvard, 1971; M.S., Rutgers, 1973; M.D., Brown, 1975*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
John R. Tomasula. *B.A., New York University, 1977; M.D., 1981*
Raymond V. Wedderburn. *B.A., Brown, 1982; M.D., Cornell, 1986*
Jerald A. Wishner. *B.S., Northwestern, 1984; M.D., 1988*
Chin Bor Yeoh. *B.A., Yale, 1953; M.D., Harvard, 1957*

SPECIAL LECTURER
James E. Norris, M.D.

INSTRUCTORS IN CLINICAL SURGERY
Elie F. Harouche, M.D.
John J. Keyser, M.D.
F. Frederic Khoury, M.D.
Ronald M. Linder, M.D.
Dianne R. Lorieo, M.D
Ann M. Rogers, M.D.
Frank A. Veteran, M.D.

AT ST. VINCENT'S MEDICAL CENTER

ASSISTANT CLINICAL PROFESSOR
Daniel J. Passeri. *B.A., Holy Cross Jr. College, 1971; M.D., Yale, 1975*

UROLOGY

JOHN K. LATTIMER PROFESSOR AND CHAIRMAN
Carl A. Olsson. *B.A., Bowdoin, 1959; M.D., Boston, 1963*

AT COLUMBIA-PRESBYTERIAN MEDICAL CENTER

PROFESSORS
Mitchell Clark Benson (George F. Cahill Professor). *B.S., Union, 1973; M.D., Columbia, 1977*
Terry W. Hensle. *B.S., Pennsylvania, 1964; M.D., Cornell, 1968*
Steven Kaplan (Given Foundation Professor). *B.S., City University of New York (Brooklyn), 1978; M.D., Mount Sinai, 1982*
Ihor Steven Sawczuk. *B.A., New York University, 1974; M.D., Medical College of Pennsylvania, 1979*

PROFESSOR OF ANATOMY & CELL BIOLOGY
Anthony Bellve (also in the Center for Reproductive Sciences). *B.Ag.Sc., Massey (New Zealand), 1964; M.Ag.Sc., 1967; Ph.D., North Carolina State, 1970*

PROFESSOR OF PATHOLOGY
Ralph Buttyan. *B.S., Pittsburgh, 1974; M.S., Chicago, 1977; Ph.D., 1980*

PROFESSOR OF RADIOLOGY
Jeffrey H. Newhouse. *B.A., Princeton, 1963; M.D., Harvard, 1967*

PROFESSOR OF CLINICAL UROLOGY
Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*

PROFESSOR OF CLINICAL PATHOLOGY
Paul B. Fisher. *B.A., Hunter, 1968; M.A., Lehman, 1971; Ph.D., Rutgers, 1974*

ASSOCIATE PROFESSOR
Ridwan Shabsigh. *M.D., Damascus (Syria), 1976*

ASSOCIATE PROFESSOR OF CLINICAL UROLOGY
Kevin A. Burbige. *B.A., Siena, 1972; M.D., Wayne State, 1976*

ASSOCIATE CLINICAL PROFESSORS
Jose D. Contreras. *M.D., Santo Domingo, 1961*
Harry Fisch. *B.A., State University of New York (Binghamton), 1979; M.D., Mt. Sinai, 1983*
Joseph N. Ward. *M.B., Ch.B., University College (Dublin), 1949*

ASSISTANT PROFESSORS
Erik T. Goluboff. *B.A., Columbia, 1986; M.D., Johns Hopkins, 1990*
Mantu Gupta. *B.S., Northwestern, 1987; M.D., 1989*
Aaron E. Katz. *B.S., Carnegie-Mellon, 1982; M.D., New York Medical College, 1986*

ASSISTANT PROFESSORS OF UROLOGIC SCIENCE
Scott M. Kahn. *B.A., Brandeis, 1982; Ph.D., State University of New York (Stony Brook), 1988*
Cathy L. Mendelsohn (also in Human Nutrition). *B.S., Massachusetts, 1981; Ph.D., Columbia, 1989*

ASSISTANT PROFESSORS OF CLINICAL UROLOGY
John D. Birkhoff. *B.A., Harvard, 1964; M.D., Columbia, 1969*

Ben Z. Jacobs. *B.A., Columbia, 1981; M.D., New York University, 1985*
Joseph Spencer Ritter. *M.D., Seton Hall, 1963*
Alexis E. Te. *M.D., Cornell, 1988*

ASSISTANT CLINICAL PROFESSORS

John P. Connor. *M.B.,B.Ch., Royal (Ireland), 1983*
Simon Saada. *B.S., 1964; M.B., Ch.B., 1970*
Steven Y. Tennenbaum. *B.S., City College of New York, 1980; M.D., Albert Einstein, 1984*
Michael H. Wechsler. *B.S., Trinity, 1961; M.D., St. Louis, 1965*

ASSOCIATE RESEARCH SCIENTISTS

Min-Wei Chen. *Ph.D., Antwerp (Belgium), 1984*
Rahul Gopalkrishnan. *B.S., Bombay (India), 1984; M.S., Baroda (India), 1986; Ph.D., Indian Institute of Science (Banglore, India), 1992*
Dong-Chul Kang. *B.S., Inha (Korea), 1982; M.S., 1987; Ph.D., Texas, 1996*
Irina V. Lebedeva. *Ph.D., Moscow State (Russia), 1993*
Zhao-Zhong Su. *B.S., Shanghai (China), 1967; Ph.D., Liber de Bruxelles (Belgium), 1984*

SPECIAL LECTURER

Peter N. Desanctis, M.D.

SENIOR LECTURER

Abraham L. Kierszenbaum, Ph.D.

LECTURERS

Raymond B. Andronaco, M.D.
Antionette Berkeley, M.D.
Stanley H. Boczko, M.D.
Marc D. Danziger, M.D.
Bernard H. Fagin, M.D.
Domingo Favale, M.D.
Bhagwant Gill, M.B., B.S.
Marc C. Janis, M.D.
George Klafter, M.D.
Seth E. Lerner, M.D.
Barry J. Lifson, M.D.
Edward N. Moss, M.D.
Jay A. Motola, M.D.
Raphael Novogrodsky, M.D.
Roberto E. Reid, M.D.
Bhupendra M. Tolia, M.B., B.S.
Laura L. Tres, Ph.D.
Robert J. Valenzuela, M.D.
Michael C. Young, M.D.

INSTRUCTORS IN CLINICAL UROLOGY

Edward F. Ikeguchi, M.D.
Arthur G. Krohn, M.D.
Richard Kroll, M.D.
Gregory A. Pappas, M.D.
Michael Volpe, M.D.
David M. Weiner, M.D.

AT HARLEM HOSPITAL CENTER

ASSISTANT PROFESSOR OF CLINICAL UROLOGY

Gerald Hoke. *B.A., New York University, 1979; M.D., Cornell, 1983*

ASSISTANT CLINICAL PROFESSOR OF UROLOGY

Brian K. Davis-Joseph. *B.S., Georgetown, 1986; Columbia, 1990*

INSTRUCTOR IN CLINICAL UROLOGY

Brian A. Stone, M.D.

AT ST. LUKE'S-ROOSEVELT HOSPITAL CENTER

PROFESSOR OF CLINICAL UROLOGY

Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*

ASSOCIATE PROFESSOR OF CLINICAL UROLOGY

Franklin Charles Lowe. *B.A., Princeton, 1975; M.P.H., M.D., Columbia, 1979*

ASSISTANT PROFESSOR OF CLINICAL UROLOGY

David G. Kaufman. *B.S., City College of New York, 1980; M.D., State University of New York (Stony Brook), 1982 Columbia, 1979*

ASSOCIATE RESEARCH SCIENTIST

Daniel Joseph Hryb. *Ph.D., City University of New York, 1972*

LECTURERS

Carl M. Pellman, M.D.
Arumbi P. Subramaniam, M.D.

INSTRUCTOR

Norman H. Coleburn, M.D.

INSTRUCTORS IN CLINICAL UROLOGY

Walter Ivey Delph, M.D.
Jose V. Silva, M.D.
Alexander Sotiropoulos, M.D.
Damir Velcek, M.D.

AT WHITE PLAINS HOSPITAL

ASSISTANT PROFESSOR

Matthew Lemer. *B.A., Brandeis, 1989; M.D., Yale, 1993*

LECTURER

George Owens, M.D.

OFFICIAL REGULATIONS*

RESERVATION OF UNIVERSITY RIGHTS

This bulletin is intended for the guidance of persons applying for or considering application for admission to Columbia University and for the guidance of Columbia students and faculty. The bulletin sets forth in general the manner in which the University intends to proceed with respect to the matters set forth herein, but the University reserves the right to depart without notice from the terms of this bulletin. The bulletin is not intended to be and should not be regarded as a contract between the University and any student or other person.

UNIVERSITY REGULATIONS

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he or she is first registered.

The privileges of the University are not available to any student until he or she has completed registration. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges. No student may register after the stated period unless he or she obtains the written consent of the appropriate dean or director.

The University reserves the right to withhold the privilege of registration or any other University privilege from any person with an unpaid debt to the University.

ATTENDANCE AND LENGTH OF RESIDENCE

The minimum residence requirement for each Columbia degree is 30 points of course work completed at Columbia University.

Students are held accountable for absences incurred owing to late enrollment.

A student in good standing may, for a valid reason, be granted a leave of absence by the Dean of the School.

RELIGIOUS HOLIDAYS

It is the policy of the University to respect its members' religious beliefs. In compliance with New York State law, each student who is absent from school because of his or her religious beliefs will be given an equivalent opportunity to register for classes or make up any examination, study, or work requirements that he or she may have missed because of such absence on any particular day or days. No student will be penalized for absence due to religious beliefs, and alternative means will be sought for satisfying the academic requirements involved. Officers of administration and of instruction responsible for scheduling of academic activities or essential services are expected to avoid conflict with religious holidays as much as possible. If a suitable arrangement cannot be worked out between the student and the instructor involved, they should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt of academic credits, graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University.

RULES OF UNIVERSITY CONDUCT

The Rules of University Conduct (Chapter XLI of the Statutes of the University) provide special disciplinary rules applicable to demonstrations, rallies, picketing, and the circulation of petitions. These rules are designed to protect the rights of free expression through peaceful demonstration while at the same time ensuring the proper functioning of the University and the protection of the rights of those who may be affected by such demonstrations.

The Rules of University Conduct are University-wide and supersede all other rules of any school or division. Minor violations of the Rules of Conduct are referred to the normal disciplinary procedures of each school or division ("Dean's Discipline"). A student who is charged with a serious violation of the Rules has the option of choosing Dean's Discipline or a more formal hearing procedure provided in the Rules.

All University faculty, students, and staff are responsible for compliance with the Rules of University Conduct. Copies of the full text are available in FACETS, the University student handbook (http://www.columbia.edu/cu/facets/), and at the Office of the University Senate, 406 Low Memorial Library.

STATEMENT OF NON-DISCRIMINATORY POLICIES

The University is publishing the following statements in accordance with certain federal, state, and local statutes and administrative regulations:

Consistent with the requirements of Title IX of the Education Amendments of 1972, as amended, and regulations thereunder, the University does not discriminate on the basis of sex in the conduct or operation of its education programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX may be referred to Zenobia White-Farrell, Associate Director of the University's Office of Equal Opportunity and Affirmative Action (402 Low Memorial Library, Mail Code 4333, 535 West 116th Street, New York, NY 10027, telephone 212-854-5511), or to the Director, Office for Civil Rights (Region II), 26 Federal Plaza, New York, NY 10278.

Columbia University admits students of any race, color, national and ethnic origin, and age to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate against any person on the basis of race, color, national and ethnic origin, or age in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other University-administered programs.

Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination against any person on the basis of race, color, or national origin in programs or activities receiving federal financial assistance. Title VII of the Civil Rights Act of 1964, as amended, prohibits employment discrimination against any person because of race, color, religion, sex, or national origin. Executive Order 11246, as amended, prohibits discrimination in employment because of race, color, religion, sex, or national origin and requires affirmative action to ensure equality of opportunity in all aspects of employment. In addition, the New York Human Rights Law,

* Policies and procedures are subject to change. Check the FACETS web site (http://www.columbia.edu/cu/facets/), for the most current information.

Article 15, Executive Law Section 296 prohibits discrimination against any person in employment because of age, race, creed, color, national origin, disability, sex, marital status, and genetic predisposition or carrier status.

Consistent with the requirements of Section 504 of the Rehabilitation Act of 1973, as amended, and regulations thereunder, the University does not discriminate against any person on the basis of disability in admission or access to, or employment or treatment in, its programs and activities. Section 503 of the Rehabilitation Act of 1973, as amended, requires affirmative action to employ and advance in employment qualified workers with disabilities. The Americans with Disabilities Act of 1990 also prohibits discrimination in public accommodation and in employment against qualified persons with disabilities. It requires the University to provide qualified applicants and employees with reasonable accommodations that do not impose undue hardship.

The Equal Pay Act of 1963 prohibits discrimination on the basis of sex in rates of pay. The Age Discrimination in Employment Act of 1967, as amended, prohibits discrimination in employment on the basis of age. The Age Discrimination Act of 1975 prohibits discrimination on the basis of age in programs and activities receiving federal financial assistance.

Section 313 of the New York Education Law, as amended, prohibits educational institutions from discriminating against persons seeking admission as students to any institution, program, or course because of race, religion, creed, sex, color, marital status, age, or national origin. The New York City Human Rights Law, Title 8, Section 8-107, makes it an unlawful discriminatory practice for an employer to discriminate against any person because of their age, race, creed, color, national origin, gender, disability, marital status, sexual orientation, or alienage or citizenship status. It also prohibits educational institutions from discriminating against persons in any of the above categories in the provision of certain accommodations, advantages, facilities, or privileges.

Currently, the policies protect against discrimination and harassment on the basis of race, color, sex, religion, national and ethnic origin, age, citizenship, the actual or perceived status of an individual as a victim of domestic violence, disability, marital status, sexual orientation, and status as a Vietnam era or disabled veteran.

The Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, (38 U.S.C. 4212), prohibits job discrimination and requires affirmative action to employ and advance in employment qualified special disabled veterans and veterans of the Vietnam era.

To help clarify what is unlawful sexual harassment the Federal Equal Employment Opportunity Commission (EEOC) has issued Guidelines on the subject. While the EEOC Title VII Guidelines apply only to faculty and other employees, Title IX, administered by the U.S. Education Department's Office for Civil Rights (OCR), also protects students from sexual harassment. Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature will constitute sexual harassment when:

1. submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment;
2. submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting that individual; or,
3. such conduct has the purpose or effect of unreasonably interfering with an individual's academic or work performance or creating an intimidating, hostile, or offensive academic or working environment.

All employees, students, and applicants are protected from coercion, intimidation, interference, or retaliation for filing a complaint or assisting in an investigation under any of the foregoing policies and laws.

The University's Office of Equal Opportunity and Affirmative Action has been designated to coordinate compliance activities under each of the programs referred to above. Any employee who believes that he or she has been denied equal opportunity should contact this office, which may informally investigate complaints and offer advice and counsel on questions relating to equal opportunity and affirmative action, including information about applicable formal grievance procedures and agencies where complaints may be filed.

DISCRIMINATION AND SEXUAL HARASSMENT POLICY AND PROCEDURE

The University's Discrimination and Sexual Harassment Policy and Procedure is available to enrolled students who feel that they have been sexually harassed and/or discriminated against on the basis of race, color, religion, national or ethnic origin, sex, sexual orientation, marital status, age, disability, citizenship, the actual or perceived status of an individual as a victim of domestic violence, or Vietnam era or qualified special disabled veteran status. A copy of the Policy and Procedure is available in FACETS, the University student handbook, and in the Office of Equal Opportunity and Affirmative Action, 402 Low Memorial Library; telephone: (212) 854-5511.

A complaint may be brought by filing a written complaint with Zenobia White-Farrell, the associate director in charge of the University's Office of Equal Opportunity and Affirmative Action (the "Equal Opportunity Officer"), 402 Low Memorial Library, (212) 854-5511. A complaint shall be brought within 180 working days after the occurrence of the alleged unlawful discrimination. Where a complaint is not timely filed, however, the Equal Opportunity Officer may determine that special circumstances exist that excuse the delay, and consider the complaint as timely filed.

CHARGE OF THE UNIVERSITY PANEL ON DISCRIMINATION AND SEXUAL HARASSMENT

The Columbia Panel on Discrimination and Sexual Harassment is composed of trusted, accessible, and sympathetic members of the University community who act as informal mediators. Their goal is the protection and counsel of any member of the University who is made to feel personally pressured or uncomfortable because of the behavior of another University member. Members of the panel provide a safe, impartial, non-adversarial setting in which the problem can be considered or solved through confidential counseling and, when requested, mediation between the complainant and the alleged harasser. The panel thus provides guidance and protection for the accused as well, identifying false or mistaken accusations, misunderstandings, or unconscious behavior. Panel members are also a link through which the University can take account of, and take appropriate action against, those on campus who are behaving illegally. The Panel on Discrimination and Sexual Harassment is a timely, protective, and compassionate arm of the University, one that not only sensitizes and educates the University community but also demonstrates the University's commitment to fair treatment of all its members. Names and contact information for members of the Columbia Panel on Discrimination and Sexual Harassment can be found in Appendix E of FACETS, the University student handbook, or by contacting the Office of Equal Opportunity and Affirmative Action.

ROMANTIC RELATIONSHIP ADVISORY STATEMENT

Columbia University's educational mission is promoted by the professionalism in its faculty-student and staff-student relationships. Faculty and

staff are cautioned that consensual romantic relationships with student members of the University community, while not expressly prohibited, can prove problematic. While some relationships may begin and remain harmonious, they are susceptible to being characterized as non-consensual and even coercive. This sometimes occurs when such a relationship ends, and is exacerbated by the inherent power differential between the parties.

A faculty or staff member involved in a consensual relationship with a student is expected to remove him/herself from academic or professional decisions concerning the student. This expectation arises because the relationship may impair, or may be perceived as impairing, a faculty or staff member's ability to make objective judgments about that student.

The Provost has authorized some departments to adopt more restrictive policies, given the special nature of the relationship between their students and faculty or staff. Individuals are, therefore, encouraged to contact their department head if they have any questions about whether a more restrictive policy applies to them. Departments that wish to establish more restrictive policies should contact Zenobia White-Farrell before implementation.

Should a romantic relationship with a student lead to a charge of sexual harassment against a faculty or staff member, the University is obligated to investigate and resolve the charge in accordance with its Discrimination and Sexual Harassment Policy and Procedure.

Questions regarding this Advisory Statement may be directed to Zenobia White-Farrell, Office of Equal Opportunity and Affirmative Action, 402 Low Memorial Library, 535 West 116th Street, New York, NY 10027; (212) 854-5511.

COLUMBIA UNIVERSITY OMBUDS OFFICE

The Ombuds Office is a neutral and confidential resource for informal conflict resolution, serving the entire Columbia University community--students, faculty, and employees.

For further information, contact Marsha Wagner, Ombuds Officer, 660 Schermerhorn Extension; telephone: (212) 854-1234; fax: (212) 854-6046; e-mail: ombuds@columbia.edu. On Wednesdays the Ombuds Officer is at the Health Sciences campus office, 101 Bard Hall, 50 Haven Avenue; telephone: (212) 304-7026.

THE FEDERAL FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

The University abides by the provisions of the Federal Family Educational Rights and Privacy Act of 1974. This act insures a wide range of rights, including but not limited to: information about student records that the University maintains, who maintains them, who has access to them, and for what purposes access is granted. The act also permits the University to release "directory information" without a student's consent. In addition, the act guarantees students access to their records and restricts the access of others.

Students who wish to restrict access to their directory information may do so at the Registrar's Office, 205 Kent. This same office can provide a set of guidelines and a policy statement. The guidelines are also available on ColumbiaWeb and in the current edition of FACETS. Questions about the interpretation of the guidelines should be referred to the University's General Counsel, 412 Low Library.

TRANSCRIPTS AND CERTIFICATION

The amended Family Educational Rights and Privacy Act (FERPA) of 1974 prohibits release of educational records without the written consent of the student (for certain exceptions and further restrictions, consult FACETS, the University student handbook). You may obtain an official transcript of your academic record at Columbia University by writing to: Student Administrative Services, Columbia University, Room 141, Black Building, 650 West 168th Street, New York, NY 10032, Attention: Transcripts.

Please include the following information with your request: current and former names; Social Security number; schools attended and dates of attendance; degrees awarded and dates awarded; number of transcripts desired and complete address for each; your current address and telephone number; and your signature authorizing the release of your transcript. You may also order transcripts in person at Room 141 of the Black Building on the Health Sciences campus (9 a.m.-4:30 p.m., Monday-Friday). Currently enrolled students may order transcripts for themselves and for colleges and universities via the Student Services page on the World Wide Web at http://www.columbia.edu/cu/students/. There is no charge for issuing transcripts; however, all students pay a one-time transcript fee of $45 upon their first registration at the University. The normal processing time for transcripts is two to three business days. If you mail in your request for a transcript, you should allow several additional days for delivery to and from the University.

You may order certifications of your enrollment and degrees via mail or in person, as described above. When requesting a certification by mail, include the notation "Attention: Certifications" on your envelope. Certifications are provided while you wait if you come to the Black Building to request them. There is no charge for certifications.

IMMUNIZATION REQUIREMENTS

Columbia University Health Sciences campus policy mandates that all students in the Health Sciences must prove immunity to measles (rubeola), mumps, and rubella (MMR) in order to register for classes. This includes students born before January 1, 1957, and students taking less than 6 credits. The only acceptable proof that you are immune to measles, mumps, and rubella (MMR) is by one of the following: (a) lab reports demonstrating immune titers obtained within five (5) years of the date of registration; (b) written documentation that you received two MMR immunizations (injections) 4 to 6 weeks apart no earlier than September 1, 1996; or (c) coming to our Immunization Office, Tower 1, Room 3E, on or before the day of registration to have MMR serologies or immunizations at no cost to you. Your school may require other immunizations (e.g., hepatitis B, varicella). Documentation must be sent to Columbia University Student Health Service-MMR, 60 Haven Avenue, Room 3E, New York, NY 10032.

DISABILITY SERVICES

Columbia is committed to serving the needs of students with disabilities. Services to students with permanent or temporary disabilities are coordinated by the University Office of Disability Services. Disability Services works in conjunction with P&S to support its academic program and standards and to meet students' disability needs.

The University Office of Disability Services provides a variety of services, programs, and resources to allow students with disabilities full participation in the academic and campus experience. Students are expected to identify their disability and to provide current and appropriate medical or diagnostic documentation before any accommodations can be considered. In cases involving students with learning disabilities, appropriate documentation must provide a current assessment of the student's adult level of learning skills and style and must include a report summary and complete test battery scores. To allow sufficient time for review of needs and implementation of accommodations, students with disabilities are encouraged to contact

Disability Services upon acceptance to discuss their specific disability needs and to plan any academic accommodations that may be necessary.

For information, contact Columbia University Office of Disability Services, 802 Lerner, Mail Code 2605, 2920 Broadway, New York, NY 10027; (212) 854-2388 (voice); (212) 854-2378 (TDD); fax: (212) 854-3448; e-mail: disability@columbia.edu.

SEXUAL MISCONDUCT POLICY

On February 25, 2000, the University Senate adopted a Sexual Misconduct Policy and Disciplinary Procedure that can be used as an alternative to Dean's Discipline. The Sexual Misconduct Policy applies to all students in all schools of the University. The Disciplinary Procedure for Sexual Misconduct applies to all students, with the exception of those enrolled in the Law School, but including the students of Teachers College and Barnard College. The policy prohibits sexual misconduct by any student, and provides for comprehensive education of students, faculty, and administrators about the issue of sexual misconduct.

Copies of the policy and procedure are available from the Office of Sexual Misconduct Prevention and Education, 703 Lerner, Mail Code 2603, 2920 Broadway, New York, NY 10027; telephone: (212) 854-1717; fax: (212) 854-5840; http://www.columbia.edu/cu/sexualmisconduct/. The policy and procedure can also be found in the Office of the Dean of Students of every school and in FACETS, the University student handbook.

POLICY

The University's Policy on Sexual Misconduct requires that standards of sexual conduct be observed on campus, that violations of these standards be subject to discipline, and that resources and structures be sufficient to meet the physical and emotional needs of individuals who have experienced sexual misconduct. Columbia University's policy defines sexual misconduct as non-consensual, intentional physical conduct of a sexual nature, such as unwelcome physical contact with a person's genitals, buttocks or breasts. Lack of consent may be inferred from the use of force, threat, physical intimidation, or advantage gained by the victim's mental or physical incapacity or impairment of which the perpetrator was aware or should have been aware.

COMPLAINT RESOLUTION OPTIONS

Three options are available for resolution of complaints of sexual misconduct against a student:

1. Dean's Discipline within the school of the charged student;
2. Mediation through an accredited mediator affiliated with the University, such as the Ombuds Officer; or
3. The University's Alternative Disciplinary Procedure for Sexual Misconduct.

Choosing to pursue a disciplinary action can be a difficult and confusing decision. The Office of Sexual Misconduct Prevention and Education is available to assist you in understanding your options for complaint resolution.

Complaints about non-student members of the University community should be directed to the Office of Equal Opportunity and Affirmative Action at Columbia, the Dean of Studies Office at Barnard, or the Office of the Associate Dean at Teachers College.

CAMPUS SAFETY AND SECURITY

At Columbia University, the safety and well-being of our students, faculty, and staff is an important priority. Columbia's campus and its environs are safe and have a relatively low crime rate for an urban university.

The University is required by federal law to publish an annual security report containing information with respect to campus security policies and statistics on the incidence of certain crimes on and around our campuses. This information is available in FACETS, the University student handbook (http://www.columbia.edu/cu/facets/), or at the Web site for the United States Department of Education (http://ope.ed.gov/Security/instDetail.asp?UNITID=190150/), or by requesting a copy of the report from: Campus Crime Report, Department of Security, Columbia University, 111 Low Library, Mail Code 4301, 535 West 116th Street, New York, NY 10027.